

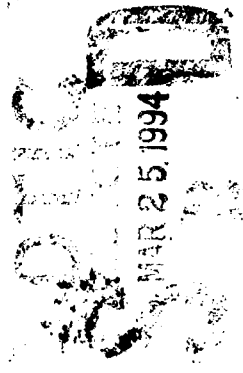
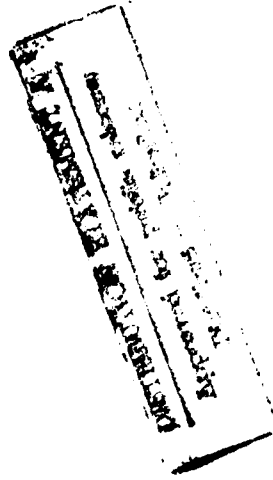
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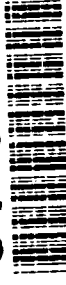
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# DEPARTMENT OF THE AIR FORCE

COMMITTEE STAFF PROCUREMENT BACKUP BOOK  
FY 1995 BUDGET ESTIMATES  
FEBRUARY 1994



94-09244



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AIRCRAFT PROCUREMENT, AIR FORCE  
VOLUME I

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Volume I

AIRCRAFT PROCUREMENT

FY 1995 PRESIDENT'S BUDGET SUBMISSION

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DEPARTMENT OF THE AIR FORCE  
FY 1995 PROCUREMENT PROGRAM

## SUMMARY

FEB 1994

(\$ IN MILLIONS)

## APPROPRIATION: AIRCRAFT PROCUREMENT, AIR FORCE

ACTIVITY	FY 1993	FY 1994	FY 1995
01. COMBAT AIRCRAFT	3,490.3	1,233.2	659.6
02. AIRLIFT AIRCRAFT	2,451.5	2,308.6	2,816.5
03. TRAINER AIRCRAFT	169.2	150.7	278.4
04. OTHER AIRCRAFT	642.6	582.4	565.7
05. MODIFICATION OF INSERVICE AIRCRAFT	1,445.7	1,005.4	1,135.9
06. AIRCRAFT SPARES AND REPAIR PARTS	487.9	425.7	488.9
07. AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	1,220.2	899.1	802.6
TOTAL	9,907.4	6,605.0	6,747.6

\* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
FY 1995 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010- AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 1994

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1995		FY 1993		FY 1994		FY 1995		S
			UNIT	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST C	

## BUDGET ACTIVITY 01: COMBAT AIRCRAFT

## STRATEGIC OFFENSIVE

1	B-1B (MVP)	B		160.5		162.4		154.3	U
2	B-2A (MVP)	B	4	(3489.0)		(571.7)		(384.4)	U
	LESS: ADVANCE PROCUREMENT (PV)			(-847.0)					
				2642.0		571.7		384.4	

## TACTICAL FORCES

3	F-15 E	A		20.9		28.6		20.4	U
4	F-16 C/D (MVP)	A	24	(724.2)	12	(538.1)		(100.5)	U
	LESS: ADVANCE PROCUREMENT (PV)			(-125.0)		(-67.7)			
				599.1		470.4		100.5	

## 5 F-16 C/D (MVP)

ADVANCE PROCUREMENT (CV)  
(FY 1993 FOR FY 1994) (MEMO)

## TOTAL COMBAT AIRCRAFT

				3,490.3		1,233.2		659.6	
--	--	--	--	---------	--	---------	--	-------	--

## BUDGET ACTIVITY 02: AIRLIFT AIRCRAFT

## TACTICAL AIRLIFT

• ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
FY 1995 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 1994

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1995 UNIT COST	MILLIONS OF DOLLARS				S		
				FY 1993 QUANTITY	FY 1993 COST	FY 1994 QUANTITY	FY 1994 COST		FY 1995 QUANTITY	FY 1995 COST
6	C-17 (MVP)	B	461,419,833	6	(2005.0)	6	(2138.3)	6	(2768.5)	U
	LESS: ADVANCE PROCUREMENT (PV)				(-216.5)		(-203.5)		(-295.6)	
					1788.5		1934.8		2472.9	
7	C-17 (MVP)									
	ADVANCE PROCUREMENT (CV)				276.9		222.2		189.9	U
	(FY 1993 FOR FY 1994) (MEMO)				(203.5)					
	(FY 1993 FOR FY 1995) (MEMO)				(73.4)					
	(FY 1994 FOR FY 1995) (MEMO)						(222.2)		(189.9)	
	(FY 1995 FOR FY 1996) (MEMO)									
8	HC-130	A			99.0					U
	OTHER AIRLIFT									
9	C-130H	A		8	287.1		53.6		50.0	U
	NON DEVELOPMENT AIRLIFT									
10	NON DEVELOPMENT AIRLIFT AIRCRAFT	A					97.9		103.7	U
	TOTAL AIRLIFT AIRCRAFT				2,451.5		2,308.6		2,816.5	
	BUDGET ACTIVITY 03: TRAINER AIRCRAFT									
	OPERATIONAL TRAINERS									
11	ENHANCED FLIGHT SCREENER	A		42	12.5	33	9.9			U
12	JPATS	A	41,088,333					3	123.3	U

\* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
FY 1995 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE DATE: FEB 1994

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1995 UNIT COST	MILLIONS OF DOLLARS				U	
				---FY 1993--- QUANTITY COST	---FY 1994--- QUANTITY COST	---FY 1995--- QUANTITY COST	---FY 1996--- QUANTITY COST		
13	TANKER, TRANSPORT, TRAINER SYSTEM	B	4,848,843	36	156.6	35	140.8	32	155.2
	TOTAL TRAINER AIRCRAFT				169.2		150.7		278.4
BUDGET ACTIVITY 04: OTHER AIRCRAFT									
-----									
HELICOPTERS									
14	MH-60G	A		10	29.8				
MISSION SUPPORT AIRCRAFT									
15	CIVIL AIR PATROL A/C	A	53,481	27	2.7	27	3.6	27	1.4
16	DRUG INTERDICTION	A			35.0				
OTHER AIRCRAFT									
17	E-8B	B	284,519,500	2	(622.1)	2	(514.7)	2	(569.0)
	LESS: ADVANCE PROCUREMENT (PV)				(-125.4)		(-78.3)		(-123.7)
					496.7		436.3		445.3
18	E-8B								
	ADVANCE PROCUREMENT (CV)								
	(FY 1993 FOR FY 1994) (MEMO)				78.3		123.7		118.9
	(FY 1994 FOR FY 1995) (MEMO)				(78.3)		(123.7)		(118.9)
	(FY 1995 FOR FY 1996) (MEMO)								
19	SOF A/C CSE	A					18.8		
	TOTAL OTHER AIRCRAFT				642.6		582.4		565.7

\* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
FY 1995 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 1994

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS) FY 1995 UNIT COST	MILLIONS OF DOLLARS			
				---FY 1993---	---FY 1994---	---FY 1995---	S
			QUANTITY	QUANTITY	QUANTITY	QUANTITY	E
			COST	COST	COST	COST	C

## BUDGET ACTIVITY 05: MODIFICATION OF INSERVICE AIRCRAFT

## STRATEGIC AIRCRAFT

20 B-2A	A			21.9		65.1	U
21 B-1B	A		50.9	29.0		45.6	U
22 B-52	A		64.1	37.4		25.8	U
23 F-117	A		14.6	16.3		11.2	U

## TACTICAL AIRCRAFT

24 A-10	A		7.6	19.6		47.2	U
25 F/RF-4	A			2.0		1.6	U
26 F-15	A		301.3	268.3		201.1	U
27 F-16	A		168.0	120.5		157.2	U
28 EF-111	A		8.9	3.8		2.0	U
29 F-111	A		39.6	19.1		5.0	U
30 TR-1A	A		.2				U

• ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
FY 1995 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 1994

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)				MILLIONS OF DOLLARS			
			FY 1995 UNIT COST	FY 1993 QUANTITY	FY 1993 COST	FY 1994 QUANTITY	FY 1994 COST	FY 1995 QUANTITY	FY 1995 COST	
31	T/AT-37	A			1.9		3.4		1.4	U
AIRLIFT AIRCRAFT										
32	C-5	A			4.9		31.1		28.7	U
33	C-9	A			2.0		8.5		6.8	U
34	C-17A	A					2.1		6.1	U
35	C-21	A			.1		.3		2.5	U
36	C-22	A							5.1	U
37	C-STOL	A			.1		.1		.7	U
38	C-137	A			3.2		3.5		1.4	U
39	C-141	A			13.1		29.2		14.5	U
TRAINER AIRCRAFT										
40	T-38	A			30.3		12.9		25.6	U
41	T-41 AIRCRAFT	A					.2		.2	U
42	T-43	A			.3		.3		5.2	U
OTHER AIRCRAFT										
43	KC-10A (ATCA)	A			17.6		36.7		18.1	U
44	C-12	A			.2		.3		1.3	U

• ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
FY 1995 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 1994

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS				S	
			FY 1995 UNIT COST	FY 1993 QUANTITY	FY 1993 COST	FY 1994 QUANTITY	FY 1994 COST	FY 1995 QUANTITY		FY 1995 COST
45	C-18	A			.2				2.1	U
46	C-20 MODS	A			.1				6.5	U
47	VC-25A MOD	A			.2				.8	U
48	C-130	A			72.0		129.1		77.0	U
49	C-135	A			411.4		70.6		103.4	U
50	E-3	A			75.4		4.6		137.6	U
51	E-4	A			17.8		9.0		35.2	U
52	H-1	A					.1			U
53	H-60	A					29.6		.3	U
54	OTHER AIRCRAFT	A			85.9		66.8		40.8	U
55	DARP MODS								3.7	U
OTHER MODIFICATIONS										
56	CLASSIFIED PROJECTS	A			53.9		28.3		48.9	U
TOTAL MODIFICATION OF INSERVICE AIRCRAFT					1,445.7		1,005.4		1,135.9	
BUDGET ACTIVITY 06: AIRCRAFT SPARES AND REPAIR PARTS										
AIRCRAFT SPARES + REPAIR PARTS										

\* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
FY 1995 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 1994

MILLIONS OF DOLLARS

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1993		FY 1994		FY 1995		S
			UNIT COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	
57	SPARES AND REPAIR PARTS	A			487.9		425.7		488.9	U	
TOTAL AIRCRAFT SPARES AND REPAIR PARTS					487.9		425.7		488.9		

BUDGET ACTIVITY 07: AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES

58	COMMON AGE	A			446.7		193.5		225.8	U
59	INDUSTRIAL PREPAREDNESS	A			35.1		25.1		52.5	U
60	WAR CONSUMABLES	A			27.8		17.9		26.6	U
61	OTHER PRODUCTION CHARGES	A			586.4		638.1		259.5	U
62	DARP SUPPORT EQUIPMENT								196.9	U
63	COMMON ECM EQUIPMENT				97.7		24.5		41.3	U

OTHER PRODUCTION CHARGES - SOF

\* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
FY 1995 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3010F AIRCRAFT PROCUREMENT, AIR FORCE

DATE: FEB 1994

LINE NO	ITEM NOMENCLATURE	IDENT CODE	A	(DOLLARS) FY 1995 UNIT COST	MILLIONS OF DOLLARS				S
					QUANTITY	COST	QUANTITY	COST	
	64 OTHER PRODUCTION CHARGES - SOF			26.6					
	TOTAL AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES			1,220.2		899.1		802.6	
	TOTAL AIRCRAFT PROCUREMENT, AIR FORCE			9,907.4		6,605.0		6,747.6	

\* ITEMS UNDER \$50,000

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AIRCRAFT PROCUREMENT, AIR FORCE

For construction, procurement, and modification of aircraft and equipment, including armor and armament, specialized ground handling equipment and training devices, spare parts, and accessories therefor; specialized equipment; expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes including rents and transportation of things; ~~(\$6,662,934)~~ \$6,747,599, to remain available for obligation until September 30, ~~(1996)~~ 1997.

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COMPARISON OF FY 1993 PROGRAM REQUIREMENTS AS REFLECTED  
IN FY 1994 PB WITH 1993 PROGRAM REQUIREMENTS  
AS SHOWN IN FY 1995 PB

SUMMARY OF REQUIREMENTS (in Thousands)

	FY 93 Col Total Program Requirements per FY 94 PB	FY 93 Col Total Program Requirements per FY 95 PB	Increase or Decrease ( )
Combat Aircraft	3,513,753	3,490,276	(23,477)
Airlift Aircraft	2,437,667	2,451,506	13,839
Trainer Aircraft	169,164	169,164	0
Other Aircraft	617,578	642,604	25,026
Modification of In-Service Aircraft	1,570,863	1,445,739	(125,124)
Aircraft Spares and Repair Parts	495,741	487,918	(7,823)
ACFT Support Equipment and Facilities	1,195,530	1,220,200	24,670
Reimbursable Program	327,900	85,706	(242,194)
Total Fiscal Year Program	10,328,196	9,993,113	(335,083)

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EXPLANATION OF CHANGES WITHIN BUDGET ACTIVITY  
(\$ in Millions)

1. **Combat Aircraft:   -\$23.5**  
Decrease is the result of net adjustment to the following: Below threshold reprogrammings for upward adjustments from the B-1 (-\$5.2), the B-2 (-\$18.1), and the F-16 (-\$2).
2. **Airlift Aircraft:   +\$13.8**  
Increase represents a net increase to the C-17 to partially fund proposed settlement (+\$24.1) offset by a decrease to the C-130 for NUNN/BUGER (-\$6.0) and omnibus reprogramming requirements (-\$4.3).
3. **Trainer Aircraft:   \$0**  
No change in budget activity funding.
4. **Other Aircraft:   +\$25.0**  
Increase represents a net increase into Aircraft Procurement for Drug Interdiction Aircraft (+\$35.0) offset by below threshold reprogramming from the E-8 (-\$10.0).
5. **Modification of In-Service Aircraft:   -\$125.1**  
Decrease is the result of rescission proposal for C-135 (-\$92.8), proposed reprogramming of C-141 for C-17 proposed settlement (-\$26.0); and various below threshold reprogrammings (-\$6.3).
6. **Aircraft Spares and Repair Parts   -\$7.8**  
Decrease due to below threshold reprogrammings (-\$7.8).
7. **Aircraft Support Equipment and Facilities   +\$24.7**  
Increase due to below threshold reprogrammings to Common Support Equipment, Other Production Charges, and Common ECM Equipment and ATARS proposed rescission. (+\$24.7)

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COMPARISON OF FY 1993 FINANCING AS REFLECTED  
IN FY 1994 PB WITH FY 1993 FINANCING  
AS SHOWN IN FY 1995 BUDGET

	Financing per FY 1994 PB	Financing per FY 1995 Budget	Increase Decrease ( )
<b>Program Requirements</b>			
Reimbursable Service Account	(327,900) (10,000,296)	(85,706) (10,013,006)	(242,194) 12,710
Subtotal Program Requirements	10,328,196	10,098,712	(229,484)
<b>Less:</b>			
Anticipated Reimbursements	327,900	85,706	(242,194)
Reprogramming from/to prior year budget plans	0	136,742	136,742
Subtotal	327,900	222,448	(105,452)
<b>Add:</b>			
Unobligated balance expiring	0	136,742	136,742
Reduction Pursuant to P.L. 101-51	28,989	0	(28,989)
Rescissions	0	(105,600)	(105,600)
Subtotal	28,989	31,142	2,153
Appropriation	10,029,285	9,907,406	(121,879)

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COMPARISON OF FY 1994 PROGRAM REQUIREMENTS AS REFLECTED  
IN FY 1994 PB WITH 1994 PROGRAM REQUIREMENTS  
AS SHOWN IN FY 1995 PB

SUMMARY OF REQUIREMENTS (In Thousands)

	FY 94 Col Total Program Requirements per FY 94 PB	FY 94 Col Total Program Requirements per FY 95 PB	Increase or Decrease ( )
Combat Aircraft	1,591,057	1,233,165	(357,892)
Airlift Aircraft	2,516,395	2,308,572	(207,823)
Trainer Aircraft	157,308	150,699	(6,609)
Other Aircraft	426,818	582,421	155,603
Modification of In-Service Aircraft	1,107,988	1,005,388	(102,600)
Aircraft Spares and Repair Parts	556,077	425,677	(130,400)
ACFT Support Equipment and Facilities	945,322	899,112	(46,210)
Reimbursable Program	175,500	99,900	(75,600)
Total Fiscal Year Program	7,476,465	6,704,934	(771,531)

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COMPARISON OF FY 1993 FINANCING AS REFLECTED  
IN FY 1993 APB WITH FY 1993 FINANCING  
AS SHOWN IN FY 1994 BUDGET

	Financing per FY 1993 APB	Financing per FY 1994 Budget	Increase Decrease ( )
Program Requirements	11,256,601	10,328,196	(928,405)
Program Requirement (Service Account)	(10,928,701)	(10,000,296)	(928,405)
Program Requirements (Reimbursable)	(327,900)	(327,900)	0
Less:			
Anticipated Reimbursements	327,900	327,900	0
Reprogramming from/to prior year budget plans			
Add:			
Reduction Pursuant to P.L.101-51	0	28,989	28,989
Rescission	0	0	0
Appropriation	10,928,701	10,029,285	(899,416)

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EXPLANATION OF CHANGES WITHIN BUDGET ACTIVITY  
(\$ in Millions)

1. **Combat Aircraft: -\$357.9**  
Decrease is the net result of reduction to the F-16 (-\$324.7) and the B-2 (-\$32.1) programs and distribution of a general reduction (-\$1.1) for non Federally Funded Research Centers (FFRDCs).
2. **Airlift Aircraft: -\$207.8**  
Net decrease is the result of a reduction and proposed reprogramming to the C-17 (-\$161.3), defense contract Admin/Audit (-\$144.3), add of Non Development Airlift Aircraft (+\$100.0), and distribution of a general reduction (-\$2.2) for non FFRDCs.
3. **Trainer Aircraft: -\$6.6**  
Decrease is the result of a reduction to the TTTS (-\$6.6) program
4. **Other Aircraft: +\$155.6**  
Increase is the net result of addition of JSTARS aircraft (E-8) (+\$155.0) and an increase to the Civil Air Patrol program (+\$1.1) offset by general non FFRDC reduction (-\$.5)
5. **Modification of In-Service Aircraft: -\$102.6**  
The decrease is the result of adjustments to the following weapon systems:  
B-1B (-\$21.8), B-52 (-\$10.0), A-10 (-\$8.8), F-15 (-\$14.4), EF-111 (+\$3.8), C-17A (-\$14.4), C-130 (-\$12.0), C-135 (+\$24.0), E-4 (-\$22.5), Other Mods (-\$17.2), and Classified Projects (-\$9.3) to reflect the final FY94 appropriation
6. **Aircraft Spares and Repair Parts -\$130.4**  
The net decrease is the result of a reduction (-\$100.0) reflecting the final FY94 appropriation and a proposed reprogramming (-\$30.4) to partially finance C-17 program requirements
7. **Aircraft Support Equipment and Facilities +\$46.2**  
Decrease is the net result of reductions to Other Production charges (-\$31.8) and War Consumables program (-\$14.0) and distribution of a general reduction for non FFRDCs (-\$.4)

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COMPARISON OF FY 1993 PROGRAM REQUIREMENTS AS REFLECTED  
IN FY 1995 PB WITH 1994 PROGRAM REQUIREMENTS  
AS SHOWN IN FY 1995 PB

SUMMARY OF REQUIREMENTS (In Thousands)

	FY 93 Program Requirements per FY 95 PB	FY 94 Program Requirements per FY 95 PB	Increase or Decrease ( )
Combat Aircraft	3,490,276	1,233,165	(2,257,111)
Airlift Aircraft	2,451,506	2,308,572	(142,934)
Trainer Aircraft	169,164	150,699	(18,465)
Other Aircraft	642,604	582,421	(60,183)
Modification of In-Service Aircraft	1,445,739	1,005,388	(440,351)
Aircraft Spares and Repair Parts	487,918	425,677	(62,241)
ACFT Support Equipment and Facilities	1,220,200	899,112	(321,088)
Reimbursable Program	85,706	99,900	14,194
Total Fiscal Year Program	9,993,113	6,704,934	(3,288,179)

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EXPLANATION OF CHANGES WITHIN BUDGET ACTIVITY  
(\$ in Millions)

1. **Combat Aircraft: -\$2,257.1**  
 B-2: FY93 concludes 20 aircraft buy (-\$2,070.3)  
 F-16: Reflects decrease in production quantities from 24 to 12 aircraft offset by termination costs (-\$196.5)  
 B-1: Increase for ICS requirements (+\$1.9)  
 F-15: Increase requirement for organic support equipment (+\$7.8)
2. **Airlift Aircraft: -\$142.9**  
 C-130: Termination of C-130 production with the FY93 buy of 8 aircraft (-\$233.5)  
 HC-130: Reflects a one time buy in FY93 (-\$99.0)  
 NDAA: Initiation of a Non Developmental Airlift Aircraft program (+\$97.9)  
 C-17: Increased funding for ICS and support equipment (+\$91.7)
3. **Trainer Aircraft: -\$18.5**  
 EFS: Quantity decrease from 42 to 33 (-\$2.7)  
 TTTS: Quantity decrease from 36 to 35 and reduced support equipment (-\$15.8) requirements
4. **Other Aircraft: -\$60.2**  
 MH-60G: FY93 concludes buy with 10 in FY93 (-\$29.8)  
 Drug Interdiction: A one time buy in FY 93 (-\$35.0)  
 SOFCOM: Reflects transfer of common support equipment from Budget Authority 07 (CSE) to Budget Authority 04 in support of integrated weapon system management (+\$18.8)  
 JSTARS: Reduced support equipment buy (-\$15.0) due to requirement phasing
5. **Modification of In-Service Aircraft: -\$440.4**

WEAPON SYSTEM		FY 1993	FY 1994	FY 1995
E-3		75.4	4.6	137.6
A-10		7.6	19.6	47.2
B-1		50.9	29.0	45.6
C-5		4.9	31.1	28.7
C-130		72.0	128.6	77.0
C-135		411.4	36.8	102.2
CLASSIFIED PROJECTS				
F-16		53.9	28.3	48.7
		168.0	120.5	157.2
F-15		301.3	268.3	201.1

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EXPLANATION OF CHANGES WITHIN BUDGET ACTIVITY  
(Cont)  
(\$ in Millions)

Annualization reduced required funding level of FY 94 on all platforms.

B-2: FY 95 new start ZSR-63-Band 4 (Radar Warning Receiver).

B-1: FY 93 is last year of funding for Overwing Fairing Fire Prevention.  
FY 94 begins AFT DC Power Upgrade.

A-10: FY 94 several major modifications begin including IDM, Forward Looking Infrared, and night attack capabilities.

F-15: FY 94 began GPS modification, skip year for ALQ-135 P3I, and last year for ALR-56C.  
FY 95 last year of funding for ALQ-135.

F-16: FY 94 restructured to level requirements on Radar Warning Receiver, F100-200E Engine upgrade.  
FY 95 begins Joint Direct Attack Munitions.

F-111: FY 94 completed major mods.

C-5: FY 94 began MADARS II Multiplexer, MLG/Door Actuating System, and GPS.

C-21: FY 95 begins GPS.

C-141: FY 94 began Weepole Rework.

FY 95 is a skip year for AWLS/Autopilot due to sufficient kits on hand to maintain schedule

T-38: FY 94 annualized Bulkhead funding.  
FY 95 begins GPS.

T-43: FY 95 begins GPS.

KC-10: FY 94 began GPS.

C-20: FY 95 begins GPS.

C-130: FY 95 begins Electrical System and last major funding for HF Auto Com Processor and ADS.

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C-135: FY 94 is a skip year or reengining modifications sufficient kits on hand to maintain schedule  
FY 95 begins Multipoint Refueling and GPS.

E-3: FY 94 is a skip year for interconnectivity modifications (ESM, DAPG, GPS and JTIDS TADIL J) sufficient kits on hand to maintain schedule

E-4: FY 95 begins High Power Transmitter Set.

MH-60: FY 94 Began Retrofit and modification.

6. Aircraft Spares and Repair Parts: -\$62.2  
Replenishment Spares decrease due to reduction of requirements for Classified Programs (-\$41.8); CLS Systems/Trainers decrease due primarily to reduction of requirements for NEACP Operations (-\$9.9); and Munition Items Spares (-\$21.2).  
Initial Spares increase due to renewed funding for B-2 and C-17 offset by decreased requirements for Modification Initial Spares (+\$10.7).

7. Aircraft Support Equipment and Facilities: -\$321.1  
Decrease due to reduced funding required for the following programs: Common Ground Equipment (-\$253.1); Industrial Preparedness (-\$10.0); War Consumables (-\$9.9); Other Production Charges (+\$51.7); Common ECM Equipment (-\$73.2); Canceled Account Adjustments (-\$26.6).

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COMPARISON OF FY 1994 PROGRAM REQUIREMENTS AS REFLECTED  
IN FY 1995 PB WITH 1995 PROGRAM REQUIREMENTS  
AS SHOWN IN FY 1995 PB

SUMMARY OF REQUIREMENTS (In Thousands)

	FY 94 Program Requirements per FY 95 PB	FY 95 Program Requirements per FY 95 PB	Increase or Decrease ( )
Combat Aircraft	1,233,165	659,581	(573,584)
Airlift Aircraft	2,308,572	2,816,496	507,924
Trainer Aircraft	150,699	278,428	127,729
Other Aircraft	582,421	565,683	(16,738)
Modification of In-Service Aircraft	1,005,386	1,135,929	130,541
Aircraft Spares and Repair Parts	425,677	488,894	63,217
ACFT Support Equipment and Facilities	899,112	802,588	(96,524)
Reimbursable Program	99,900	108,000	8,100
Total Fiscal Year Program	6,704,934	6,855,599	150,665

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EXPLANATION OF CHANGES WITHIN BUDGET ACTIVITY  
(\$ in Millions)

1. **Combat Aircraft: -\$573.6**  
 B-1: Completion of deferred logistics support requirements in FY 94 (-\$8.1)  
 B-2: Decrease in training and non-recurring requirements and Other Government costs (-\$187.4)  
 F-15: Decrease in funding for Avionics Peculiar Support Equipment (-\$8.3)  
 F-16: FY 94 last buy (-\$369.8)
2. **Airlift Aircraft: +\$507.9**  
 C-17: Funding (\$140.0M) for HAZMAT environmental proposed, C-17 contract settlement, and funding for cost reduction initiatives (+\$505.8)  
 C-130: Reduced ICS (-\$3.6)  
 Non-Developmental Airlift Aircraft: (+\$5.7)
3. **Trainer Aircraft: +\$127.7**  
 EFS: FY 94 final buy (-\$10.0)  
 JPATS: FY 95 initial buy (+\$123.3)  
 TTTS: Reduction of 3 aircraft offset buy increased support equipment requirements (+\$14.4)
4. **Other Aircraft: -\$16.7**  
 One time funding for SOF Aircraft Support Equipment in FY 94
5. **Modification of In-Service Aircraft: +\$130.5**  
 See FY 93 - FY 94 Comparison explanation
6. **Aircraft Spares and Repair Parts: +\$63.2**  
 Replenishment Spares increase due to CLS Systems/Trainers requirements for NEACP Operations and F-117 (+\$11.3);  
 Munition Coded Spares (+\$11.4); offset by a decrease to Classified Program funding (-\$3.6). Initial Spares increase due to increased funding for initial modifications spare parts partially offset by various decreases to Weapon System and Other Spares (+\$44.1)
7. **Aircraft Support Equipment and Facilities: -\$96.5**  
 Decrease due to reduced requirements for Other Production Charges, primarily the NATO AWACS, F-117, and LANTIRN programs (-\$181.7), offset by increases in Common Support Equipment (+\$31.6), Industrial Preparedness (+\$27.4), War Consumables (+\$8.7) and Common ECM equipment (+\$17.5).

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GLOSSARY  
OF ACRONYMS

AGM - Air-to-Ground Missile  
AIM - Air Intercept Missile  
AIS - Avionics Intermediate Shop  
ACMI - Aircraft Combat Maneuvering Instrumentation  
AMRAAM - Advanced Medium-Range Air-to-Air Missile  
ASPJ - Airborne Self Protection Jammer  
AUTODIN - Automated Digital Network  
AWACS - Airborne Warning and Control System  
BLSS - Base Level Self-Sufficiency Spares  
BY - Budget Year  
C3 - Command, Control and Communication System  
CFE - Contractor Furnished Equipment  
CONUS - Continental United States  
CPMS - Comprehensive Power Management System  
CPT - Cockpit Procedures Trainer  
CRA - Continuing Resolution Authority  
CSRL - Common Strategic Rotary Launcher  
CTS - Countermeasure Test Set  
CY - Current Year  
DDTE - Design, Development, Test and Evaluation  
ECCM - Electronic Counter Measures  
ECM - Electronic Counter Measures  
ECO - Engineering Change Order  
EOQ - Economic Order Quantity  
ECP - Engineering Change Proposal  
EPA - Economic Price Adjustment  
EW - Electronic Warfare  
EWAISP - Electronic Warfare Avionics Integration Support Facility  
FLIR - Forward Looking Infra Red  
FOT&E - Follow-on Test and Evaluation  
FOC - Fully Operational Capability  
FLTS - Flight Line Test Set  
FPIF - Fixed Price Incentive Fee

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FPIS - Fixed Price Incentive Fee, Successive Targets  
GFE - Government Furnished Equipment  
GPS - Global Positioning System  
GPU - Ground Power Unit  
GSE - Ground Support Equipment  
HAMOTS - High Accuracy Multiple Object Tracking System  
IOC - Initial Operation Capability  
IPE - Increased Performance Engine  
LANTIRN - Low Altitude Navigation and Targeting Infra Red System for Night  
MC RATE - Mission Capable Rate  
METS - Mobile Electronic Test Stations  
MYP - Multiyear Procurement  
MSIP - Multi-Stage Improvement Program  
NMC RATE - Not Mission Capable Rate  
OFP - Operational Flight Program  
OT&E - Operational Test & Evaluation  
OWRM - Other War Reserve Material  
PAGEL - Priced Aerospace Ground Equipment List  
PB - President's Budget  
PGSE - Peculiar Ground Support Equipment  
PMC - Procurement Method Code  
PR - Purchase Request  
PTT - Part Task Trainer  
PY - Prior Year  
R&M - Reliability and Maintenance  
RAA - Required Asset Availability  
RDT&E - Research, Development, Test & Evaluation  
ROC - Required Operational Capability  
RWR - Radar Warning Receiver  
ROM - Rough Order of Magnitude  
SAM - Surface-to-Air Missile  
SS - Sole Source  
SOF - Special Operation Force  
TAF - Tactical Air Force  
TEWS - Tactical Electronic Warfare System  
TISS - TEWS Intermediate Support Station

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TOA - Total Obligation Authority  
WMP - War Mobilization Plan  
WRM - War Reserve Material  
WRSK - War Reserve Spare Kits  
WST - Weapon System Trainer  
UHF - Ultra High Frequency  
VHSIC - Very High Speed Integrated Circuit

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ORGANIZATIONS

ACC - Air Combat Command  
AFMC - Air Force Material  
ALC - Air Logistics Center  
ASC - Aeronautical Systems Center  
ATC - Air Training Command  
FAA - Federal Aviation Administration  
NATO - North Atlantic Treaty Organization  
OSD - Office of the Secretary of Defense  
PACAF - Pacific Air Forces  
USAFE - United States Air Force Europe

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## TERMS

**Advanced Buy** - Obligor fund for longlead material/component is advance of the fiscal year the end item is authorized and procurement starts.

**Avionics** - Electronic equipment on-board aircraft

**Boresight** - An optical reference line used in harmonizing guns, rockets on other weapon launchers

**Chaff Flare** - Radar and infrared countermeasures

**Depot** - Wholesale level repair and supply point

**Drone** - An object used for target practice

**Fly by wire** - Full authority electronic flight control system

**Ground Clutter** - Objects on the ground which cause distorted or misleading radar readings

**Interdiction** - Operational term for behind the front line bombing

**Intertheater** - Global

**Intratheater** - Within given area

**Mobilization** - The ability to move war fighting equipment from one place to another

**Multi Stage Improvement Program** - A phased program for upgrading the F-15 and F-16

**Off the Shelf** - Commercially available equipment

**Pipeline Standards** - The expected average time it takes for a component to be removed from the aircraft, repaired and returned for use in serviceable condition

**Prototype** - A working model transforming a developmental idea into reality

**Provisioning** - The process of determining and contracting for spare parts required to support new production systems for the initial support period

**Pylon** - Munitions adapter

**Readiness** - Ability to go to war and support initial deployment

**Robotics** - Automated manufacturing technique

**S-Band** - Radio frequency spectrums from 1550 to 3990 MHz

**Solicitation** - The process of requesting proposals from private industry for goods & services required by the government

**Surge** - The period of time between normal operations and increased operations

**Sustainability** - Ability to sustain wartime combat rates after initial surge

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P-40 FOR NET P-1 COST		BUDGET ITEM JUSTIFICATION SHEET		DATE 18 FEB 1984			
APPROPRIATION/BUDGET ACTIVITY Aircraft, AF/BA01, Combat Aircraft		P-1 ITEM NOMENCLATURE B-1B Deferred Logistics/Interim Contractor Support					
	FY(PY)93	FY(CY)94	FY(BY)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY	N/A	N/A	N/A	N/A	N/A	N/A	N/A
COST (In Millions)	180.5	162.4	154.3	127.5	101.3	53.9	45.8
<p><b>MISSION AND DESCRIPTION:</b> The B-1B has been designated as the "backbone" of the conventional bomber force. The Deferred Logistics Program involves the purchase of initial support equipment and technical orders not purchased as part of the full scale production program for the B-1B. This line also provides Interim Contractor Support for the B-1B as the needed support equipment is delivered.</p> <p><b>JUSTIFICATION:</b> Interim Contractor Support (ICS) funding of \$152.2M in FY95 is for both Intermediate and Depot Level repair services for the B-1B weapon system. Interim Contractor Support services, material support, data management, contractor operated storage sites, packaging, handling, transportation and material control systems for items both intermediate and depot level ICS repairs. There are approximately 90 subvendors for D-level repairs for the Rockwell ICS contract alone. Types of items that are repaired on ICS include: gearbox assemblies, manifold assemblies, vertical indicators, auxiliary power units, and power drive units.</p> <p>Funding of \$2.1M is also requested in FY95 to provide Type I factory training on a variety of B-1B subsystems and the simulator. This need is ongoing to keep training current with the current system configuration.</p>							

P-1 Shopping List  
Item No. 1-1

EXHIBIT P-40

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EXHIBIT P-5  AIRCRAFT COST ANALYSIS (Dollars in Millions)	A. Aircraft Model B-1B		B. Popular Name		C. Manufacturer	
	FY93	QTY	FY94	QTY	FY95	QTY
	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. AIRFRAME/CFE	0	0	0	0	0	0
2. ENGINE/ACCESSORIES (ENG MODEL: F-100-PW-100)	0		0		0	
3. AVIONICS: CFE	0		0		0	
GFE	0		0		0	
4. ARMAMENT	0		0		0	
5. OTHER GFE	0		0		0	
6. ECO (ALL FLYAWAY COMPONENTS)	0		0		0	
7. NON-RECURRING COSTS						
8. OTHER COSTS	0		0		0	
9. FLYAWAY COSTS	0	0	0	0	0	0
10. AIRFRAME PGSE (Deferred Logistics)		66.7		46.4		0
11. ENGINE PGSE						
12. AVIONICS PGSE						
13. PECULIAR TRAINING EQUIPMENT						
14. PUBLICATIONS/TECH. DATA						
15. ECO (ALL SUPPORT ITEMS)		93.8		116		152.2
16. OTHER (ICS)						2.1
17. OTHER (TYPE I TRAINING)						
18. SUPPORT COST		160.5		162.4		154.3
19. GROSS P-1 COST		160.5		162.4		154.3
20. LESS: PRIOR YR ADV. PROC.						
21. NET P-1 COST		160.5		162.4		154.3
NOTE:	UNCLASSIFIED Item No. 1-2					

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EXHIBIT P-44

WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: B-1B

Date: 18 Feb 94

I. Procurement Program:

	Service	Other Service	FMS/Other
FY BY 95			
FY BY 94			
FY CY 93			
FY PY 92			

II. Hardware (Unit Cost) (Provide for each P-5, P-12, or P-34 Flyaway stub entry)

FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
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Aliframe

Reason for Change:

FY92-93  
FY93-94  
FY94-95

III. Procurement Support (Total Cost) (Explain difference for each support stub entry)

PGSE	160.5	1.9	162.4	-8.1	154.3
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Reason for Change:

FY93-94 1.9 increase due to additional ICS requirements  
FY94-95 -8.1 decrease due to completion of deferred logistics procurement

Item No. 1-3

EXHIBIT P-44

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## EXHIBIT P-40 FOR B-2 WEAPON SYSTEM

BUDGET ITEM JUSTIFICATION SHEET						DATE	
FY95 PRES BUDGET						7-Feb-94	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
AIRCRAFT PROCUREMENT - B-2 WEAPON SYSTEM (INCLUDES BP 10, 11 AND 16; EXCLUDES ADV BUY \$)		B-2A					
	FY93(PY)	FY94(CY)	FY95(BY)	FY96(BY+1)	FY97(BY+2)	FY98(BY+3)	FY99(BY+4)
QUANTITY	4	0	0	0	0	0	0
COST (TY\$ IN MILLIONS)	2642.0	571.7	384.4	640.6	236.7	230.5	153.1
<p><b>MISSION AND DESCRIPTION:</b>            THE B-2 ADVANCED TECHNOLOGY BOMBER IS AN INTERCONTINENTAL BOMBER THAT EMPLOYS LOW OBSERVABLES, OR STEALTH TECHNOLOGY TO ACHIEVE ITS MISSION. WITH AN RAA SCHEDULED FOR THE MID 1990'S, IT WILL HAVE THE CAPABILITY TO DELIVER BOTH NUCLEAR AND CONVENTIONAL WEAPONS AGAINST FIXED AND RELOCATABLE TARGETS. THE AERODYNAMIC DESIGN IS MARKEDLY MORE EFFICIENT (REQUIRES FAR FEWER TANKERS) THAN ITS PREDECESSORS.</p> <p>THE B-2 BOMBER IS AN ALL-WING, TWO-PLACE AIRCRAFT WITH TWIN WEAPONS BAYS. FOUR GENERAL ELECTRIC F118-GE-100 AIRCRAFT ENGINES POWER THE B-2. THE F118 ENGINE IS A DERIVATIVE OF THE F110 ENGINE, CURRENTLY USED IN THE F-16 FIGHTER AND IS IN THE 19,000 LB THRUST CLASS.</p> <p><b>FY94 PROGRAM JUSTIFICATION:</b>            THE FY94 PROGRAM CONTAINS COSTS ASSOCIATED WITH THE FOLLOWING: SPARES, ICS, SOFTWARE INVESTMENT, TECH ORDERS, CURTAILMENT, AIRCREW TRAINING DEVICE, MAINTENANCE TRAINING DEVICE, RETROFIT, AND EMD AIR VEHICLE REFURBISHMENT.</p> <p><b>FY95 PROGRAM JUSTIFICATION:</b>            THE FY95 PROGRAM CONTAINS COSTS ASSOCIATED WITH THE FOLLOWING: ICS, SOFTWARE INVESTMENT, TECH ORDERS, CURTAILMENT, AIRCREW TRAINING DEVICE, AND MAINTENANCE TRAINING DEVICE.</p>							

EXHIBIT P-40

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## EXHIBIT P-5

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AIRCRAFT COST ANALYSIS (Dollars in Millions)	A. Aircraft Model  B-2	B. Popular Name  ADVANCED TECHNOLOGY BOMBER		C. Manufacturer  NORTHROP B-2 DIVISION		D. Date  7-Feb-94	
		FY93(PY)		FY94(CY)		FY95(BY)	
		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1 AIRFRAME		512.2	2048.9	N/A	0.0	N/A	0.0
2 ENGINE (F118-GE-100)		17.0	68.2	N/A	0.0	N/A	0.0
3 AVONICS							
CFE		151.1	604.6	N/A	0.0	N/A	0.0
GFE		0.0	0.0	N/A	0.0	N/A	0.0
4 WEAPON DELIVERY SYSTEM		22.7	90.7	N/A	0.0	N/A	0.0
5 GFP		0.4	1.5	N/A	7.3	N/A	9.9
6 SE/PM		76.4	305.6	N/A	0.0	N/A	0.0
7 ECO		0.0	0.0	N/A	7.3	N/A	5.1
8 TOTAL RECURRING		779.8	3119.5		14.6		15.0
9 NON-RECURRING			236.1		95.9		45.8
10 PSE/DATA/TRAINING			75.1		351.5		233.1
11 OGC			3.3		37.1		19.8
12 SYSTEM SUPPORT			0.0		31.8		26.7
SOFTWARE SUPPORT			55.0		40.8		44.0
ICS			55.0		72.6		70.7
TOTAL SYS SUPPORT							
13 SUBTOTAL			3489.0		571.7		384.4
14 ADVANCE BUY DEBIT			0.0		0.0		0.0
15 ADVANCE BUY CREDIT FY92 FOR FY93			-847.0		0.0		0.0
16 Net P-1			2642.0		571.7		384.4
17 INITIAL SPARES (BA-6)			0.0		185.1		2.4
18 WRSK (BA-6)			0.0		0.0		0.0
19 RETROFIT (BA-5)			0.0		21.9		64.4
20 FACILITIES (BA-7)			0.0		0.0		8.5
21. TOTAL PRODUCTION			2642.0		778.7		459.7

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EXHIBIT P-5

033

FY95 PRES BUDGET Acquisition Logistics and Operations & Support Funding for Selected Weapon Systems									
Weapon System: B-2			Date: 7-Feb-94		PE 11127F 64240F				
	FY93(PY)	FY94(CY)	FY95(BY)	FY96(BY+1)	FY97(BY+2)	FY98(BY+3)	FY99(BY+3)	TC	Total
<u>A. General Program Data</u>									
Procurement Qty	4								
Cum Operating Inventory		4	7						
No. of Operating Units									
OPTEMPO									
(Flying Hrs or Miles per month)	5.2	330.4	1346.4						
Readiness Objective									
Intermediate Level									
Stand-Up date									
Depot Level Stand-Up Date									
<u>B. Acquisition Logistics Resources</u>									
Initial Spares		185.1	2.4						
War Reserve Spares		0.0	0.0						
Field Level Common Spt Equip									
Proc	2.6	3.2	3.2						
Field Level Peculiar Spt Equip									
RDT&E	69.3	20.4	15.1						
Proc	36.3	57.8	196.9						
Depot Level Support Equip/Software									
RDT&E									
Proc-Equipment	0.0	0.0	0.0						
Proc-Software Investment	0.0	31.8	26.8						
Technical Data/Manuals									
RDT&E	3.4	11.2	8.3						
Proc	13.6	31.5	17.0						
Training Services and Training Equip									
RDT&E	168.9	47.5	27.8						
Proc	25.2	262.2	19.2						

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EXHIBIT P-6 Pg 1 of 2



## EXHIBIT P-6

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FY96 PRIOR BUDGET Acquisition Logistics and Operations & Support Funding for Selected Weapon Systems									
Weapon System: B-2		Date: 7-Feb-94		PE 11127F 64240F					
	FY93(PY)	FY94(CY)	FY95(BY)	FY96(BY+1)	FY97(BY+2)	FY98(BY+3)	FY99(BY+2+3)	TC	Total
C. Operations and Support Manpower (Nos. and \$)									
Military	276	323	312	318	328	264	260	246	
Officer	1300	1553	1603	1818	1935	1763	1677	1610	
Enlisted	969	1046	1115	1142	1120	1073	1017	1308	
Civilian									
Fuel									
Consumables	0	1.3	3.5	5.8	8	9	11.3	684.8	723.7
Reparables	0	1.0	6	16.3	25.1	40.9	44.3	1807.8	1941.4
Sustaining Eng Spt (3400)	1.1	10.7	83.9	136.5	184.8	199.6	206.9	6492.8	7316.3
Interim Contractor Spt (3010)	55.0	40.8	44.0	54.2	72.6	43.3	15.0	0.0	324.9

EXHIBIT P-6 Pg 2 of 2

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FY95 BUDGET PRODUCTION SCHEDULE		P-1	ITEM NOMENCLATURE	B-2
<p>           1. <b>Item Description:</b>             2. <b>Item Number:</b>             3. <b>Item Name:</b>             4. <b>Item Code:</b>             5. <b>Item Unit:</b>             6. <b>Item Quantity:</b>             7. <b>Item Price:</b>             8. <b>Item Total:</b>             9. <b>Item Status:</b>             10. <b>Item Location:</b>             11. <b>Item Date:</b>             12. <b>Item Time:</b>             13. <b>Item User:</b>             14. <b>Item Comment:</b>             15. <b>Item Action:</b>             16. <b>Item Result:</b>             17. <b>Item Error:</b>             18. <b>Item Warning:</b>             19. <b>Item Message:</b>             20. <b>Item Note:</b>             21. <b>Item Detail:</b>             22. <b>Item Summary:</b>             23. <b>Item Footer:</b>             24. <b>Item Header:</b>             25. <b>Item Title:</b>             26. <b>Item Subtitle:</b>             27. <b>Item Author:</b>             28. <b>Item Editor:</b>             29. <b>Item Reviewer:</b>             30. <b>Item Approver:</b>             31. <b>Item Signer:</b>             32. <b>Item Stamp:</b>             33. <b>Item Seal:</b>             34. <b>Item Mark:</b>             35. <b>Item Sign:</b>             36. <b>Item Initial:</b>             37. <b>Item Date:</b>             38. <b>Item Time:</b>             39. <b>Item User:</b>             40. <b>Item Comment:</b>             41. <b>Item Action:</b>             42. <b>Item Result:</b>             43. <b>Item Error:</b>             44. <b>Item Warning:</b>             45. <b>Item Message:</b>             46. <b>Item Note:</b>             47. <b>Item Detail:</b>             48. <b>Item Summary:</b>             49. <b>Item Footer:</b>             50. <b>Item Header:</b>             51. <b>Item Title:</b>             52. <b>Item Subtitle:</b>             53. <b>Item Author:</b>             54. <b>Item Editor:</b>             55. <b>Item Reviewer:</b>             56. <b>Item 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<b>Item Stamp:</b>             85. <b>Item Seal:</b>             86. <b>Item Mark:</b>             87. <b>Item Sign:</b>             88. <b>Item Initial:</b>             89. <b>Item Date:</b>             90. <b>Item Time:</b>             91. <b>Item User:</b>             92. <b>Item Comment:</b>             93. <b>Item Action:</b>             94. <b>Item Result:</b>             95. <b>Item Error:</b>             96. <b>Item Warning:</b>             97. <b>Item Message:</b>             98. <b>Item Note:</b>             99. <b>Item Detail:</b>             100. <b>Item Summary:</b>             101. <b>Item Footer:</b>             102. <b>Item Header:</b>             103. <b>Item Title:</b>             104. <b>Item Subtitle:</b>             105. <b>Item Author:</b>             106. <b>Item Editor:</b>             107. <b>Item Reviewer:</b>             108. <b>Item Approver:</b>             109. <b>Item Signer:</b>             110. <b>Item Stamp:</b>             111. <b>Item Seal:</b>             112. <b>Item Mark:</b>             113. <b>Item Sign:</b>             114. <b>Item Initial:</b>             115. <b>Item Date:</b>             116. <b>Item Time:</b>             117. <b>Item User:</b>             118. <b>Item Comment:</b>             119. <b>Item Action:</b>             120. <b>Item Result:</b>             121. <b>Item Error:</b>             122. <b>Item Warning:</b>             123. <b>Item Message:</b>             124. <b>Item Note:</b>             125. <b>Item Detail:</b>             126. <b>Item Summary:</b>             127. <b>Item Footer:</b>             128. <b>Item Header:</b>             129. <b>Item Title:</b>             130. <b>Item Subtitle:</b>             131. <b>Item Author:</b>             132. <b>Item Editor:</b>             133. <b>Item Reviewer:</b>             134. <b>Item Approver:</b>             135. <b>Item Signer:</b>             136. <b>Item Stamp:</b>             137. <b>Item Seal:</b>             138. <b>Item Mark:</b>             139. <b>Item Sign:</b>             140. <b>Item Initial:</b>             141. <b>Item Date:</b>             142. <b>Item Time:</b>             143. <b>Item User:</b>             144. <b>Item Comment:</b>             145. <b>Item Action:</b>             146. <b>Item Result:</b>             147. <b>Item Error:</b>             148. <b>Item Warning:</b>             149. <b>Item Message:</b>             150. <b>Item Note:</b>             151. <b>Item Detail:</b>             152. <b>Item Summary:</b>             153. <b>Item Footer:</b>             154. <b>Item Header:</b>             155. <b>Item Title:</b>             156. <b>Item Subtitle:</b>             157. <b>Item Author:</b>             158. <b>Item Editor:</b>             159. <b>Item Reviewer:</b>             160. <b>Item Approver:</b>             161. <b>Item Signer:</b>             162. <b>Item Stamp:</b>             163. <b>Item Seal:</b>             164. <b>Item Mark:</b>             165. <b>Item Sign:</b>             166. <b>Item Initial:</b>             167. <b>Item Date:</b>             168. <b>Item Time:</b>             169. <b>Item User:</b>             170. <b>Item Comment:</b>             171. <b>Item Action:</b>             172. <b>Item Result:</b>             173. <b>Item Error:</b>             174. <b>Item Warning:</b>             175. <b>Item Message:</b>             176. <b>Item Note:</b>             177. <b>Item Detail:</b>             178. <b>Item Summary:</b>             179. <b>Item Footer:</b>             180. <b>Item Header:</b>             181. <b>Item Title:</b>             182. <b>Item Subtitle:</b>             183. <b>Item Author:</b>             184. <b>Item Editor:</b>             185. <b>Item Reviewer:</b>             186. <b>Item Approver:</b>             187. <b>Item Signer:</b>             188. <b>Item Stamp:</b>             189. <b>Item Seal:</b>             190. <b>Item Mark:</b>             191. <b>Item Sign:</b>             192. <b>Item Initial:</b>             193. <b>Item Date:</b>             194. <b>Item Time:</b>             195. <b>Item User:</b>             196. <b>Item Comment:</b>             197. <b>Item Action:</b>             198. <b>Item Result:</b>             199. <b>Item Error:</b>             200. <b>Item Warning:</b>             201. <b>Item Message:</b>             202. <b>Item Note:</b>             203. <b>Item Detail:</b>             204. <b>Item Summary:</b>             205. <b>Item Footer:</b>             206. <b>Item Header:</b>             207. <b>Item Title:</b>             208. <b>Item Subtitle:</b>             209. <b>Item Author:</b>             210. <b>Item Editor:</b>             211. <b>Item Reviewer:</b>             212. <b>Item Approver:</b>             213. <b>Item Signer:</b>             214. <b>Item Stamp:</b>             215. <b>Item Seal:</b>             216. <b>Item Mark:</b>             217. <b>Item Sign:</b>             218. <b>Item Initial:</b>             219. <b>Item Date:</b>             220. <b>Item Time:</b>             221. <b>Item User:</b>             222. <b>Item Comment:</b>             223. <b>Item Action:</b>             224. <b>Item Result:</b>             225. <b>Item Error:</b>             226. <b>Item Warning:</b>             227. <b>Item Message:</b>             228</p>				

**P.1 ITEM NOMENCLATURE**

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DATE 7 Feb 64

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**P.1 SHOPPING LIST**

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PROCUREMENT HISTORY & PLANNING										A. DATE	
FY95 PRES BUDGET										7-Feb-94	
B. APPROPRIATION/BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
B-2A											
AIRCRAFT PROCUREMENT - B-2 WEAPON SYSTEM											
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	P/R RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST PER AV	SPECS AVAIL NOW	SPEC REV/S REQ'D	IF YES, WHEN AVAIL
AIRFRAME/AVIONICS											
FY92 BUY	NORTHROP CORP	SS/FPIF	ASCNYSK	N/A**	JAN 94	JUL 96	1	1516.2	NO	NO	
FY93 BUY	NORTHROP CORP	SS/FPIF	ASCNYSK	N/A**	JAN 94	SEP 96	4	662.2	NO	NO	
ENGINE											
FY 92 BUY*	GENERAL ELEC CO	SS/FP	ASCNYSK	N/A**	FEB 94	FEB 94	4	15.1	YES	NO	
FY 93 BUY*	GENERAL ELEC CO	SS/FP	ASCNYSK	N/A**	FEB 94	MAY 94	16	17.1	YES	NO	
WPN DEL SYS	BOEING MIL AIRPL	SS/FP	ASCNYSK	N/A**	JUL 91	JUL 92	50	N/A	YES	NO	
<b>REMARKS:</b> ALL UNIT COSTS PROVIDED ARE PER AIRCRAFT. AIRFRAME AND AVIONICS COSTS HAVE BEEN COMBINED.  JUSTIFICATION FOR SOLE SOURCE CONTRACTS: ALL SOLE SOURCE CONTRACTS WERE AWARDED AS FOLLOW-ON PRODUCTION CONTRACTS TO COMPETITIVELY-AWARDED FULL-SCALE DEVELOPMENT CONTRACTS.  * UNIT COSTS REPRESENT TOTAL COST OF FOUR (4) ENGINES PER AIR VEHICLE  ** PR RELEASE DATE N/A DUE TO CLASSIFICATION OF SUPPORTING DATA. A COMMITMENT DOCUMENT PRECEDES AWARD DATE BY APPROXIMATELY 1 MONTH.											

FY95 PRES BUDGET SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)										
APPROPRIATION/P-1 Line Item:			Weapon System: B-2		Equipment Nomenclature: Aircrew & Maintenance Trainers					
Fin Plan	FY93/Prior	FY94(CY)	FY95(BY)	FY96(BY+1)	FY97(BY+2)	FY98(BY+3)	FY99(BY+4)	TC	Total	
Quantity	59		5						64	
Proc	208.2	262.2	19.2	39.5	18.7	14.2	3.8	0.5	566.3	
RDT&E	867.7	47.5	27.8	27.7	33.0	0.0	0.0	0.0	1003.7	
O&S	7.0	11.5	13.3	13.9	14.3	16.5	17.1	18.3	111.9	

TRAINING SYSTEM DESCRIPTION:

The Training System consists of training equipment hardware, software, and courseware, training missions and classroom academic materials. This Training System is associated with the B-2 ATB whose IOC date is DEC 93. The maintenance trainer RFT date was May 93. Aircrew training will begin in Jan 94. The maintenance trainers consist of the CMTS, WSTA, and the CESMT. The CPT, WST, and the MT are aircrew trainers and the WLT is an armament trainer. The TSC, SSC and TL are support devices for the above listed trainers.

ACRONYMS:

RFT= Ready for Training  
CPT= Cockpit Procedures Trainer  
WST= Weapon Sys  
MT= Mission Trainer  
WLT= Weapons Loading Trainer  
CMTS= Computerized Maintenance Training System

WSTA= Weapon System Training Aid  
CESMT= Crew Escape System Maintenance Trainer  
TSC= Training Support Center  
SSC= System Support Center  
TL= Training Library

FY95 PRES BUDGET SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)												
WEAPON SYSTEM: B-2				IOC DATE: DEC 93				Date: 7-Feb-94				
TRAINING DEVICE BY TYPE	SITE	DELIVERY TIME	READY TRAINING DATE	AVG STUDENT THROUGHPUT	PRIOR YEARS		FY94(CY)		FY95(BY)		FY96(BY+1)	
					QTY	COST	QTY	COST	QTY	COST	QTY	COST
<u>MAINTENANCE</u>	WAFB, MO		MAY 93		54	112.7		27.2		3.3		23.6
<u>AIRCREW</u>	WAFB, MO				5	95.5		235.0		15.9		15.9
BLOCK 10	.		JAN 94			95.5		0.0				
BLOCK 20	.		JUL 96			0.0	5	156.8		13.3		12.9
BLOCK 30	.		AUG 97			0.0	4	78.2		2.6		3
<u>TOTAL</u>						208.2		262.2		19.2		39.5
WAFB = Whiteman Air Force Base												

FY95 PRES BUDGET SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)												
Training Device by Type:		AIRCREW TRAINERS		Date:		7-Feb-94		Weapon System: B-2				
Description/Justification: Contains 3 Weapon System Trainers (WST) and 2 Mission Trainers (MT) needed to conduct aircrew training of the B-2. Also contains funding for block updates to maintain concurrency with the air vehicle.												
FINANCIAL PLAN	Prior Years		FY94(CY)		FY95(BY)		FY96(BY+1)		To Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS	3	63.0	5	212.2								275.2
				1.7		15.9		15.9		34.6		68.1
		17.5										17.5
		<u>8.0</u>		<u>21.1</u>								<u>29.1</u>
		<b>88.5</b>		<b>235.0</b>		<b>15.9</b>		<b>15.9</b>		<b>34.6</b>		<b>389.9</b>
Total Hardware Costs												
SUPPORT COSTS												
		7.0										7.0
Total Support Costs												
Software/Courseware												
TOTAL COSTS		95.5		235		15.9		15.9		34.6		396.9

FY96 PRES BUDGET SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$ M)												
Training Device by Type:		MAINTENANCE TRAINERS			Date: 7-Feb-94		Weapon System: B-2					
Description/Justification: Contains all necessary equipment for maintenance training equipment as well as future block updates to maintain concurrency with the air vehicle.												
FINANCIAL PLAN	Prior Years		FY94(CY)		FY95(BY)		FY96(BY+1)		Cost to Complete		Total Costs	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS												
Device	54	94.6						22.9				117.5
ECD's												
Nonrecurring												
GFE												
Other (Fee)												
Total Hardware Costs		94.6						22.9				117.5
SUPPORT COSTS												
Special SE												
ILS		8.1				27.2						35.3
Other		8.1				27.2						35.3
Total Support Costs		10.0				3.2				2.5		15.7
Software/Courseware												
TOTAL COSTS		112.7				27.2		22.9		2.5		168.5



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**WEAPON SYSTEM COST DATA SHEET**  
(TOA, Dollars in Millions)

**Weapon System: B-2****DATE:** 7-Feb-94**I. Procurement Program:**

	Service	Other Service	FMS/Other
FY96(BY+1)	0	0	0
FY95(BY)	0	0	0
FY94(CY)	0	0	0
FY93(PY)	4	0	0

**II. Hardware (Unit Costs) (Provided for each P-5 stub entry)**

	<u>FY93(PY)</u>	<u>DIFF</u>	<u>FY94(CY)</u>	<u>DIFF</u>	<u>FY95(BY)</u>	<u>DIFF</u>	<u>FY96(BY+1)</u>
--	-----------------	-------------	-----------------	-------------	-----------------	-------------	-------------------

**Airframe**

	511.0	-511.0	N/A	0.0	N/A		
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**Reason for Change:**

FY93 - FY94  
FY94 - FY95  
No aircraft buy in FY94.  
N/A

**Engine**

	17.0	-17.0	N/A	0.0	N/A		
--	------	-------	-----	-----	-----	--	--

**Reason for Change:**

FY93 - FY94  
FY94 - FY95  
No aircraft buy in FY94.  
N/A

**Avionics - CFE**

	151.1	-151.1	N/A	0.0	N/A		
--	-------	--------	-----	-----	-----	--	--

**Reason for Change:**

FY93 - FY94  
FY94 - FY95  
No aircraft buy in FY94.  
N/A

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EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Millions)

## Weapon System: B-2

DATE: 7-Feb-94

## II. Hardware (Unit Costs) (Provided for each P-5 stub entry)

	<u>FY93(PY)</u>	<u>DIFF</u>	<u>FY94(CY)</u>	<u>DIFF</u>	<u>FY95(BY)</u>	<u>DIFF</u>	<u>FY96(BY+1)</u>
<b>Weapon Del System</b>	22.7	-22.7	N/A	0	N/A		

## Reason for Change:

FY93 - FY94  
FY94 - FY95

No aircraft buy in FY94.  
N/A

**GTP**

0.4

-0.4

N/A

0.0

N/A

## Reason for Change:

FY93 - FY94  
FY94 - FY95

No aircraft buy in FY94.  
N/A

**SEPM**

76.4

-76.4

N/A

0

N/A

## Reason for Change:

FY93 - FY94  
FY94 - FY95

No aircraft buy in FY94.  
N/A

**ECO**

0.0

7.3

7.3

-2.2

5.1

## Reason for Change:

FY93 - FY94  
FY94 - FY95

Production in-line changes are required to incorporate Data Storage & Retrieval Unit (DSRU) and Control Management. No FY93 ECPs.  
Fewer production in-line changes than current year. Changes are required to incorporate Global Position System Aided Targeting System (GATS) into AV 17-21.

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Millions)

Weapon System: B-2

DATE: 7-Feb-94

## III. Procurement Support (Total Cost) (Explain difference for each support stub entry)

	FY93(PY)	DIFF	FY94(CY)	DIFF	FY95(BY)	DIFF	FY96(BY+1)
--	----------	------	----------	------	----------	------	------------

Non-recurring

236.1

-140.2

95.9

-50.1

45.8

Reason for Change:

FY93 - FY94

FY93 is the last production buy of aircraft with associated nonrecurring tooling.

FY94 - FY95

Refurbishment of EMD air vehicles is funded in FY94. No additional refurbishment occurs after FY94.

PSE Data Training

75.1

276.4

351.5

-118.4

233.1

Reason for Change:

FY93 - FY94

FY94 increases due to the incorporation of major production engineering changes to Aircrew Training Device (ATD) to support Block 20 and 30 configurations.

FY94 - FY95

Reduction in training funding.

Initial Spares (BA-06)

0.0

185.1

185.1

-182.7

2.4

Reason for Change:

FY93 - FY94

Resumption of initial spares procurement, including engine spares.

FY94 - FY95

Reduction reflects annualization of funding requirements.

War Read. Spares Kits  
(WRSK) (BA-06)

0.0

0.0

0.0

0.0

0.0

Reason for Change:

FY93 - FY94

N/A

FY94 - FY95

N/A

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Millions)

Weapon System: B-2

DATE: 7-Feb-94

## III. Procurement Support (Total Cost) (Explain difference for each support stub entry) (Cont.)

	<u>FY93(PY)</u>	<u>DIFF</u>	<u>FY94(CY)</u>	<u>DIFF</u>	<u>FY95(BY)</u>	<u>DIFF</u>	<u>FY96(BY+1)</u>
<b>OGC</b>	3.3	33.8	37.1	-17.3	19.8		
Reason for Change: FY93 - FY94 FY94 - FY95 Additional rearrangement and lease of AF Plant 42. Reduced rearrangement within AF Plant 42.							
<b>SOFTWARE</b>	0.0	31.8	31.8	-5.1	26.7		
Reason for Change: FY93 - FY94 FY94 - FY95 Initial software support capability investment. Completion of funding for Advanced Software Integration Lab.							
<b>ICS</b>	55.0	-14.2	40.8	3.2	44.0		
Reason for Change: FY93 - FY94 FY94 - FY95 FY 93 included ICS planning and FY 94 reflects the beginning of aircraft repair. Increased operational aircraft require additional support.							
<b>Modification (BA-03)</b>	0.0	21.9	21.9	42.5	64.4		
Reason for Change: FY93 - FY94 FY94 - FY95 Resumption of retrofit (for pending initiatives) on the B-2 program. Majority of retrofit kits funded in FY95 for economies of larger buys.							
<b>Facilities (BA-07)</b>	0.0	0.0	0.0	8.5	8.5		
Reason for Change: FY93 - FY94 FY94 - FY95 N/A AF Plant 42 facilities work to prepare for planned modifications and correction of deficiencies.							

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BUDGET ITEM JUSTIFICATION SHEET						DATE
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE
Aircraft Procurement/AF, BA01, Combat Aircraft						F-15E
QUANTITY		FY 1993	FY 1994	FY 1995	FY 1996	FY 1997
		0	0	0	0	0
COST (In Millions)		20.9	28.6	20.4	7.1	2.7
<p>Mission Description: The F-15 tactical fighter is designed for the counter air mission. Air-to-air tasks include combat air patrol, continental air defense, escort and fighter sweeps in or out of the enemy's ground-controlled intercept environment. The F-15 is a twin engine single crew fixed swept wing aircraft designed for high maneuverability in air-to-air combat. Two 24,000 lb thrust Pratt &amp; Whitney F100 turbofan engines enable the F-15 to reach a dash speed of mach 2.5. It is equipped with air-to-air missiles and a 20 mm cannon. The avionics include an advanced radar, visual head-up display, and automatic built-in test system. The F-15 has maneuverability, armament, and fire control needed to surpass the expected capability of enemy aircraft in the late 1980's. Avionics updates being incorporated under a multi-staged improvement program assure aircraft viability well into the 1990's.</p> <p>The F-15E (dual role fighter) retains the basic air-to-air capability of the F-15 and tactical fighter and adds the systems necessary to meet the urgent requirement for all weather deep penetration and night/under-the-weather air-to-surface attack. It is a two seat aircraft configured with missionized cockpits, low altitude navigation, targeting, and infrared for night (Lantirn) capability; automatic terrain following/terrain avoidance; and other improvements necessary to fulfill the deep penetration and night-under-the-weather air-to-air surface attack mission.</p> <p>FY94 Program Justification: Interim contractor support is required to provide repair support for critical air vehicle and ground support equipment assets from the time the equipment is fielded until the assets are organically supportable. Grounding of aircraft will result without this repair support. Very High Speed Integrated Circuit (VHSIC) depot support equipment. Development of a new F-15E central computer that utilizes state-of-the-art VHSIC technology requires production of depot level support equipment. This support equipment includes test software and interfaces that will be hosted on existing automatic test equipment to test and repair various high-failure components, thus eliminating contractor repair cost.</p> <p>FY96 Program Justification: Interim contractor support is continuing as described in FY94 justification. Additional VHSIC depot support equipment will be procured in FY94.</p> <p>COOPERATIVE PROGRAMS: NOT APPLICABLE</p>						

P-1 Shopping List

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## EXHIBIT P-5

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AIRCRAFT COST ANALYSIS (Dollars in Millions)	A. Aircraft Model  F-15E	B. Popular Name  EAGLE		C. Manufacturer  McDonnell-Douglas		D. Date  7 Feb 94	
		FY93		FY94		FY95	
		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. AIRFRAME		0.0	0.0	0.0	0.0	0.0	0.0
2. ENGINE/ACCESSORIES (4 PER A/C)							
3. AVIONICS: CFE		0.0	0.0	0.0	0.0	0.0	0.0
GFE		0.0	0.0	0.0	0.0	0.0	0.0
4. ARMAMENT		0.0	0.0	0.0	0.0	0.0	0.0
5. ECO (ALL FLYAWAY COMPONENTS)		0.0	0.0	0.0	0.0	0.0	0.0
6. NON-RECURRING COSTS							
7. NON-RECURRING COSTS							
8. OTHER COSTS		0.0	0.0	0.0	0.0	0.0	0.0
9. FLYAWAY COSTS							
10. AIRFRAME PGSE			0.0		0.0		0.0
11. ENGINE PGSE			0.0		0.0		0.0
12. AVIONICS PGSE			0.0		10.0		0.0
13. PECULIAR TRAINING EQUIPMENT			0.0		0.0		0.0
14. PUBLICATIONS/TECH DATA			0.0		0.0		0.0
15. ECO (ALL SUPPORT ITEMS)							
16. OTHER (ICS & ICSE)			20.9		18.6		20.4
17. SUPPORT COST			20.9		28.6		20.4
18. GROSS P-1 COSTS			20.9		28.6		20.4
19. LESS: PRIOR YEAR ADV. PROC							
20. NET P-1 COST			20.9		28.6		20.4
NOTES:							

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EXHIBIT P-5

048

**P-1 ITEM NOMENCLATURE: F-15E**

**FY93/94 BUDGET PRODUCTION SCHEDULE**[illegible]

**NOTES**

UNCLASSIFIED

PROCUREMENT HISTORY & PLANNING										A. DATE
										7 Feb 1994
B. APPROPRIATION/BUDGET ACTIVITY										
AIRCRAFT PROCUREMENT AF/BA01/COMBAT										
F-15E										
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQD	IF YES, WHEN AVAIL
AIRFRAME										
FY92	McDonnell-Douglas	SS/FFI	ASC/FFK	DEC 92	JUL 94	9	54.3			
Peace Sun 1X	McDonnell-Douglas	SS/FFP	ASC/FFK	MAY 94	SEP 95	72	63.0			
PROPULSION										
FY92	Pratt & Whitney	C/OPTION	ASC/SMK	MAR 92	SEP 93	18	4.3			
Peace Sun 1X	Pratt & Whitney	FFP	ASC/SMK	JAN 94	JAN 95	122	Not Neg			
<p>NOTE:</p> <p>Schedule reflects DSB recommended adjustment</p> <p>Engine Unit Costs are per ship set (SS) of 4 engines</p>										

EXHIBIT P-22a

P-1 Shopping List

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UNCLASSIFIED



## EXHIBIT P-44

UNCLASSIFIED

WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: F-15E

I. Procurement Program:

	Service	Other Service	FMS/Other
FY BY 95	6	N/A	24
FY CY 94	6		24
FY PY 93	6		24

I. Procurement Support

Avionics PGSE

FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
0.0	10.0	10.0	-10.0	0.0

Reason for Change:

FY93-94  
FY94-95FY 94 increase funds F-15E organic capability  
Funding requirement complete

Interim Contractor Support

20.9	-2.3	18.6	1.8	20.4
------	------	------	-----	------

Reason for Change:

FY93-94  
FY94-95FY 94 increase is the result of a need for interim contractor support for aircraft repairs.  
FY95 decrease is the result of a movement towards organic capability.

EXHIBIT P-44

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BUDGET ITEM JUSTIFICATION SHEET		DATE	
		Feb 94	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
Aircraft Procurement, AF/BA01, Combat Aircraft		F-16 Procurement	
QUANTITY		FY 1993	FY 1994
		24	12
COST (In Millions)		599.1	470.44
			100.5
			230.0
			80.4
			37.4
			34.8
MISSION AND DESCRIPTION: The F-16 Multimission Fighter is a single seat, fixed wing, high performance, single engine fighter aircraft. The design, optimized for the .8 Mach to 1.6 Mach speed range, incorporated advanced technology features to enhance its combat capability while minimizing its acquisition, operating, and support costs. The advanced technology features include a blended wing-body and a fly-by-wire flight control system. The design also includes a high visibility, high "g" cockpit. The F-16 armament consists of a 20mm. cannon, air-to-surface and air-to-air missiles, and approximately 11,000 pounds of conventional and guided air-to-surface ordnance. The F-16 will replace the F-4s in the active inventory as well as modernize the reserve forces.			
FY95 PROGRAM JUSTIFICATION: This appropriation is for post production support for the F-16 program.			
COOPERATIVE AGREEMENTS: The Memorandum of Understanding (MOU) between the U.S. Government and the Governments of Belgium, Denmark, The Netherlands, and Norway, 10 June 1975, established the framework for a cooperative program managed by a System Program Director. Specific subjects addressed are coproduction, including third country sales, currency exchange rates, contracting responsibility, nonrecurring cost recoupment, industrial participation, and taxes/duty free entry of materials/material arrangements. The MOU established a total program of 998 aircraft-650 USAF and 348 European Participating Government (EPG) aircraft. The USAF 650 program ended with the FY82 buy but limited coproduction arrangements have been applied to USAF aircraft procurements since FY82. The EPG have purchased 169 additional aircraft beyond the initial 348 quantity. Prime U.S. contractors are Lockheed Ft. Worth Company and Pratt & Whitney with aircraft final assembly plants in Turkey (TAI) and the U.S. (Lockheed Ft. Worth Company).			
FOREIGN MILITARY SALES: The F-16 System Program Office has Letters of Offer and Acceptance (LOA's) to provide F-16A/B/C/D aircraft, logistics, modification, and sustainment support to thirteen foreign military sales customers. To date, 637 aircraft have been delivered with 519 remaining projects to be delivered by the of FY99.			

P-1 Shopping List

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EXHIBIT P-40

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BUDGET ITEM JUSTIFICATION SHEET							DATE Feb 94
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE				
Aircraft Procurement, AF/BA01, Combat Aircraft			F-16 Procurement				
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY	12	0	0	0	0	0	0
COST (In Millions)	67.7	0.0	0.0	0.0	0.0	0.0	0.0
MISSION DESCRIPTION: The FY 93 funds identified above support procurement of 12 aircraft to be procured in FY 94.							
FY 95 PROGRAM JUSTIFICATION: Not applicable.							

## **P-1 Shopping List**

**EXHIBIT P-40**

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AIRCRAFT COST ANALYSIS (Dollars in millions)				A. Aircraft Model F-16		B. Popular Name Fighting Falcon		C. Manufacturer Lockheed Ft Worth Co.		D. Date: Feb-94
PROGRAM ITEM	FY 93 Unit Cost	QTY 24 Total Cost	FY 94 Unit Cost	QTY 12 Total Cost	FY 95 Unit Cost	QTY 0 Total Cost				
1. Airframe/CFE	9.4	225.2	13.0	156.0	0.0	0.0				
2. Engine/Accessories (1 per A/C) (Eng Model: F100;F110 )	4.1	97.5	4.7	55.8	0.0	0.0				
3. Avionics: CFE	1.4	33.9	1.9	22.3	0.0	0.0				
GFE	2.1	50.8	2.7	32.5	0.0	0.0				
4. Armament	0.7	16.7	0.9	10.5	0.0	0.0				
5. Other GFE	1.2	29.2	1.7	20.3	0.0	0.0				
6. ECO (All Flyaway Components)	0.0	0.0	0.5	6.0	0.0	0.0				
7. Non-recurring Costs	0.0	34.2	0.0	37.0	0.0	0.0				
8. Other Costs	3.1	73.7	4.7	56.2	0.0	0.0				
9. Flyaway Costs	22.0	561.2	30.1	396.6	0.0	0.0				
10. Airframe PGSE		95.4		6.8		0.0				
11. Engine PGSE		11.1		1.5		0.0				
12. Avionics PGSE		3.9		7.5		72.7				
13. Peculiar Training Equipment		19.2		14.7		2.9				
14. Publications/Tech. Data		18.5		25.1		20.9				
15. ECO (All Support Items)		0.0		0.0		0.0				
16. Other (ICS & ICSE)		0.0		0.0		0.0				
17. ICS		14.8		15.1		4.0				
18. New ACQ Common PGSE/ Closeout Costs		0.0		70.8		0.0				
19. Support Cost		162.9		0.0		0.0				
				141.5		100.5				
20. Gross P-1 Cost		724.1		538.1		100.5				
21. Less: Prior Yr Adv. Proc.		-125.0		-67.7						
22. Net P-1 Cost (1)	25.0	599.1	33.3	470.4		100.5				
NOTE: Unit Flyaway cost does not include non-recurring cost.										

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UNCLASSIFIED

Exhibit P-5

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UNCLASSIFIED

ADVANCE PROCUREMENT REQUIREMENTS (Dollars in Millions)									
PROGRAM: F-16									
ITEM	PRODUCTION LEADTIME (MONTHS)	FY 93		FY 94		FY 95		Date	
		QTY	COST	QTY	COST	QTY	COST	FY 94	FEB 1994
CFE RAW MATERIALS, CASTINGS & FORGINGS CONTRACT CLOSEOUT COSTS	32 MOS	12 TL	34.8						
GFE ENGINE	27 MOS	12 TL	7.3						
FIRE CONTROL RADAR	29 MOS	12 TL	18						
TRANSPONDER APX-101	26 MOS	12	0.4						
M61A1 20 MM GUN	26 MOS	12	0.5						
INTEG SERVO ACTUATOR	26 MOS	12	2						
INERTIAL NAV SET (INS)	24 MOS	12	1.6						
SEAT & RELATED EQUIP	15-33 MOS	14	1.3						
MISC	23-32 MOS	N/A	1.8						
SUBTOTAL			67.7						
EOQ									
SUBTOTAL			0						
TOTAL			67.7						
NARRATIVE: The termination liability for the airframe/CFE contract was based on contractor data obtained during the annual grassroots estimate conducted at the contractor's facility. The engine requirement was also developed from contractor data provided by the Engine Program Office. Included in the GFE category are such items as the radar, transponder, 20 mm gun and the INS. The fire control radar is funded to the termination liability requirements of the contractor. FY 94 funds are restricted to USAF contract closeout costs per Congressional direction.									

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UNCLASSIFIED

EXHIBIT P-7

**DATE: 7 FEB 84**

ITEM NO. 4-4

SECRET

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**UNCLASSIFIED**

BUDGET PROCUREMENT HISTORY & PLANNING										A. DATE
B. APPROPRIATION/BUDGET ACTIVITY										7 FEB 94
AIRCRAFT PROCUREMENT, AF/BA01/COMBAT										
C. P-1 ITEM NOMENCLATURE										
F-16C/D										
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
AIR VEHICLE										
FY93	LOCKHEED FT WORTH	SSOFFP	AFMC/ASC	930430	940715	24	9.4	YES	NO	
FY94	LOCKHEED FT WORTH	SSOFFP	AFMC/ASC	940630	960601	12	13.0	YES	NO	
PROPULSION										
FY93	KGE/Evendale OH&PW	C FP	AFMC/ASC	930331	940131	24	4.1	YES	NO	
FY94	KGE/Evendale OH&PW	C FP	AFMC/ASC	940331	950101	12	4.7	YES	NO	
<b>REMARKS:</b> Air Vehicle unit cost represents cost shown in line 1, exhibit P6. Engine unit cost as shown on line 2, exhibit P5. Engine quantities are allocated as follows: FY 93 = 12 GE/12 PW; FY94 = 12 GE/12 PW. The FY94 allocation has not yet been determined. Air Vehicle Contract Method and Type was changed from SM-4FP. The FY90-93 air vehicle procurement was originally planned as a four year multiyear contract. The contract was restructured due to a planned quantity reduction from 600 to 330 aircraft. The FY90/FY91 portions and the FY92/93 portions of the contract were definitized at different times as FPI types. HQ USAF has determined that the contract is not now a multiyear contract. There are no planned aircraft procurements in FY95.										

EXHIBIT P-22a

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UNCLASSIFIED

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$M)													DATE	7 FEB 94	
Appropriation/P-1 Line Item													Equipment Nomenclature		PE
3010/Act Procurement, Combat Act													Unit Training Device		27133F
Fin Plan	FY(PY)93	FY(CY)94	Weapon System (If Applicable) F-16			FY(BY)1995	FY(BY)2996	FY(BY2+1997	FY(BY2+2998	FY(BY2+3999	Total				
Quantity	15	8	TBD			TBD	TBD	TBD	TBD	TBD	23				
Proc	6.0	7.2	0.0			0.0	0.0	0.0	0.0	0.0	13.2				
ROT&E											0				
O&S											0				

TRAINING SYSTEM DESCRIPTION:

The purpose of the F-15F-16 Unit Training Devices (UTD) is to provide initial and continuation training for F-16 aircrew members. The UTDs will be delivered to the various USAF bases for their use at the unit level.

P-1 Shopping List			Exhibit P-43, Page 1 of 5		J verification
Item No.	Page No.	Simulator & Trng Device			
	4-8				

**DATE: 7 FEB 94**

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UNCLASSIFIED

## SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (SM)

DATE: 7 FEB 84

Training Device by Type	Unit Training Devices		Weapon System (If Applicable)		F-16	
	Description/Justification					
Financial Plan	FY(PY)83		FY(CY)84		FY(BY)85	
	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS						
Device (Hardware)	15	6.0	8	7.2	0	0.0
ECOs						
Nonrecurring						
GFE						
Other (Specify)						
Total Hardware Costs		6.0		7.2		0.0
SUPPORT COSTS						
Special SE						
Integrated Logistics Suppt						
Other (Specify)						
Total Support Costs						
Software/Courseware						
TOTAL COSTS	15	6.0	8	7.2	0	0.0
			P-1 Shopping List		Page	No.
			4		10	
					EXHIBIT P-43, Page 3 of 5	

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UNCLASSIFIED

## SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$M)

DATE 7 FEB 94

Appropriation/P-1 Line Item 010/Act Procurement, Combat Act			Weapon System (If Applicable) F-16			Equipment Nomenclature Weapon System Trainer (WST)		PE
Fin Plan	FY(PY)93	FY(CY)94	FY(BY)95	FY(BY)96	FY(BY2+1)97	FY(BY2+2)98	FY(BY2+3)99	Total
Quantity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Proc	13.2	7.5	2.9	6.6	0.0	0.0	0.0	30.2
RD&E								0
O&S								0

## TRAINING SYSTEM DESCRIPTION:

The F-16 WST provides initial and continuation training for F-16 aircrew members. There are USAF F-16 WST units throughout the world which require engineering changes and updates annually. These ECO updates include LANTIRN, OFF Updates, and IEWTD updates among other changes/updates. Currently, there are no new production units procured by the USAF.

P-1 Shopping List

Item No.

Page No.

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Exhibit P-43, Page 4 of 5

Simulator &amp; Trng Device

J ustification

UNCLASSIFIED

EXHIBIT P-43, Page 5 of 5

## UNCLASSIFIED

EXHIBIT P-44, PAGE 1

Weapon System: F-16

DATE: 7 FEB 94

## I. Procurement Program:

	Service	Other Service	FMS/Other
FY BY 95	0	N/A	N/A
FY CY 94	12	0	12
FY PY 93	24	0	51

## II. Hardware (Unit Cost) (Provide for each P-5, P-12, or P-22 Flyaway stub entry)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
Airframe	9,383	3,617	13,000	(13,000)	0

## Reason for Change:

FY93-94 Inflation increase and production rate change from 24 to 12 aircraft which increases cost/unit.  
 FY94-95 No aircraft procurement in FY95.

## Engine/Access

	4,063	587	4,650	(4,650)	0
--	-------	-----	-------	---------	---

## Reason for Change:

FY93-94 Impact of production rate decrease and inflation which increases cost/unit.  
 FY94-95 No aircraft procurement in FY95.

## Avionics: CFE

	1,413	445	1,858	(1,858)	0
--	-------	-----	-------	---------	---

## Reason for Change:

FY93-94 Impact of production rate decrease and inflation which increases cost/unit.  
 FY94-95 No aircraft procurement in FY95.

EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: F-16

DATE: 7 FEB 94

## II. Hardware (Unit Cost) (Provide for each P-5, P-12, or P22, Flyaway stub entry) (Cont.)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
Avionics: GFE	2,117	591	2,708	(2,708)	0

## Reason for Change:

FY93-94	Impact of production rate decrease and inflation which increases cost/unit.
FY94-95	No aircraft procurement in FY95.

Armament	696	96	792	(792)	0
----------	-----	----	-----	-------	---

## Reason for Change:

FY93-94	Impact of production rate decrease and inflation which increases cost/unit.
FY94-95	No aircraft procurement in FY95.

Other GFE	1,217	475	1, 92	(1,692)	0
-----------	-------	-----	-------	---------	---

## Reason for Change:

FY93-94	Impact of production rate decrease and inflation which increases cost/unit.
FY94-95	No aircraft procurement in FY95.

ECO	0	500	500	(500)	0
-----	---	-----	-----	-------	---

## Reason for Change:

FY93-94	FY93 tasks identified to specific WBS.
FY94-95	No aircraft procurement in FY95.

EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: F-16

DATE: 7 FEB 94

## III. Procurement Support (Total Cost) (Explain difference for each support stub entry)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
Non-recurring	34,200	2,800	37,000		0

## Reason for Change:

FY93-94 Inflation and identification of miscellaneous tasks.  
 FY94-95 Inclusion of contract closeout costs (USAF line shutdown) and Block 50T4 OFP updates.

Other Costs (U	3,071	1,612	4,683	(4,683)	0
----------------	-------	-------	-------	---------	---

## Reason for Change:

FY93-94 Impact of production rate decrease and inflation which increases cost/unit.  
 FY94-95 No aircraft procurement in FY95.

Airframe PGSE	95,400	(88,600)	6,800	(6,800)	0
---------------	--------	----------	-------	---------	---

## Reason for Change:

FY93-94 Impact of funding reduction related to procurement of 12 vice 24 aircraft.  
 FY94-95 No aircraft procurement in FY95.

Engine PGSE	11,100	(9,600)	1,500	(1,500)	0
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## Reason for Change:

FY93-94 Depot support procured in FY93.  
 FY94-95 No aircraft procurement in FY95.

EXHIBIT P-44

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UNCLASSIFIED

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UNCLASSIFIED

## P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET							DATE 07-Feb-94	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
AIRCRAFT PROCUREMENT, AF/BA04, OTHER AIRCRAFT		C-17A						
	FY(PY)93	FY(CY)94	FY(BY)95	FY(BY)96	FY(BY+1)97	FY(BY+2)98	FY(BY+3)99	FY(BY+4)00*
QUANTITY	6	6	6	8	0	0	0	0
COST (in Millions)	1788.5	1934.8	2472.9	2522.3	0.0	0.0	0.0	0.0
<b>MISSION AND DESCRIPTION:</b> Develops and procures C-17 Airlift Aircraft which will provide an additional increment of needed airlift capability to meet both strategic (long range) and tactical (theater) requirements. Allow rapid and timely inter and intratheater deployment employment, and resupply of combat forces to meet mobility requirements of theater cincs. Provides intratheater outsize/airdrop capability not available now. Will eventually replace retiring C-141 aircraft.								
<b>FY94 PROGRAM JUSTIFICATION:</b> Funding will provide for procurement of 6 aircraft with attendant support.								
<b>FY95 PROGRAM JUSTIFICATION:</b> Funding will provide for procurement of 6 aircraft with attendant support.								
<b>FY96 PROGRAM JUSTIFICATION:</b> Funding will provide for procurement of 8 aircraft with attendant support.								
<b>NOTES:</b> - Funding support 40 aircraft buy. The specific outyear profile will be reassessed pending a Milestone 3 review planned for Nov 1995. - Assumes \$26M will be reprogrammed from FY93 C-141 Mods to FY93 Advance Procurement for the FY1995 program and \$53.7M of FY94 procurement funds (\$30.4M Spares, \$23.3M Advance Procurement) will be reprogrammed to FY94 RDT&E								

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UNCLASSIFIED

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BUDGET ITEM JUSTIFICATION SHE					DATE 7 Feb 1994				
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE				
AIRCRAFT PROCUREMENT(ADV BUY),AF/BA02,AIRLIFT AIRCRAFT					C-17A				
	FY(PY)93	FY(CY)94	FY(BY)95	FY(BY)96	FY(BY+1)9	FY(BY+2)9	FY(BY+3)9	FY(BY+4)0	
QUANTITY	6	6	8	0	0	0	0	0	
COST (In Millions)	276.9	222.2	189.9	0.0	0.0	0.0	0.0	0.0	
Advance Buy									
FY 1993 FOR FY 1994	250.9								
FY 1993 FOR FY 1995	26.6								
FY 1994 FOR FY 1995		222.2							
FY 1995 FOR FY 1996			189.9						

EXHIBIT P-

## EXHIBIT P-5

UNCLASSIFIED

AIRCRAFT COST ANALYSIS (Dollars in Millions)	A. Aircraft Model  C-17A	B. Popular Name  GLOBEMASTER III		C. Manufacturer  McDonnell-Douglas		D. Date  7 Feb 94	
		FY93	QTY	FY94	QTY	FY95	QTY
		Unit	Total	Unit	Total	Unit	Total
		Cost	Cost	Cost	Cost	Cost	Cost
1. AIRFRAME		276.8	1660.8	275.3	1651.6	269.9	1618.9
2. ENGINE/ACCESSORIES (4 PER A/C)		24.2	145.1	24.7	148.4	23.7	142.1
(ENG MODEL F117-PW-100)		9.4	56.2	9.4	56.6	9.4	56.7
3. AVIONICS: CFE		0.9	5.1	0.9	5.2	0.9	5.4
GFE		0.1	0.8	0.1	0.8	0.1	0.8
4. OTHER GFE		8.3	49.6	11.4	68.4	23.0	138.2
5. ECO (ALL FLYAWAY COMPONENTS)			44.4		31.0		197.7
6. NON-RECURRING COSTS		319.7	1962.0	321.8	1962.0	327.0	2159.8
7. FLYAWAY COSTS							
8. AIRFRAME PGSE			45.7		108.5		129.5
9. CSE			0.0		18.2		5.7
10. PECULIAR TRAINING EQUIPMENT			1.9		50.1		41.7
11. PUBLICATIONS/TECH. DATA			21.1		14.8		31.7
12. ICS			18.2		32.1		34.7
13. SUPPORT COST			86.9		223.7		243.3
14. GROSS PRODUCTION COST			2048.9		2185.7		2403.1
15. LESS: PRIOR YR ADV. PROC.			-260.4		-250.9		-248.2
16. NET PRODUCTION COST			1788.5		1934.8		2154.9
17. HAZMAT							140.0
18. SETTLEMENT							178.0
19. NET P-1 COST			1788.5		1934.8		2472.9
NOTES:							
- Funding support 40 aircraft buy. The specific outyear profile will be reassessed pending a Milestone 3 review planned for Nov 1995.							
- Assumes \$26M will be reprogrammed from FY93 C-141 Mods to FY93 Advance Procurement for the FY1995 program							
and \$53.7M of FY94 procurement funds (\$30.4M Spares, \$23.3M Advance Procurement) will be reprogrammed to FY94 RDT&E							

EXHIBIT P-5

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UNCLASSIFIED

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UNCLASSIFIED

P-40 FOR ADVANCE PROCUREMENT

BUDGET ITEM JUSTIFICATION SHEET							DATE 7 Feb 1994	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
AIRCRAFT PROCUREMENT(ADV BUY),AF/BA02, AIRLIFT AIRCRAFT		C-17A						
	FY(PY)93	FY(CY)94	FY(BY)95	FY(BY)96	FY(BY+1)97	FY(BY+2)98	FY(BY+3)99	FY(BY+4)00*
QUANTITY	6	6	6	6	0	0	0	0
COST (in Millions)	-260.4	-250.9	-248.2	-189.9	0.0	0.0	0.0	0.0
Prior year Advance Procurement Credits								
FY 1990 FOR FY 1993	-32.0							
FY 1991 FOR FY 1993	-56.0							
FY 1992 FOR FY 1993	-172.4							
FY 1993 FOR FY 1994		-250.9						
FY 1994 FOR FY 1995			-248.2					
FY 1995 FOR FY 1996				-189.9				

EXHIBIT P-40

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UNCLASSIFIED

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PROCUREMENT HISTORY & PLANNING										A. DATE
B. APPROPRIATION/BUDGET ACTIVITY										7 Feb 1994
AIRCRAFT PROCUREMENT, AF/BA02/AIRLIFT AIRCRAFT										C-17A
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REV/S REQ'D	IF YES, WHEN AVAIL
AIRFRAME										
FY94	McDonnell-Douglas	C/FPI	AMC/ASC	FEB 94	OCT 95	6	275.3		N/A	
FY95	McDonnell-Douglas	C/FPI	AMC/ASC	JAN 95	OCT 96	6	269.9		N/A	
PROPULSION										
FY94	Pratt & Whitney	FFP	AMC/ASC	FEB 94	JUL 94	6 S/S	24.7			
FY95	Pratt & Whitney	FFP	AMC/ASC	FEB 95	JUN 95	6 S/S	23.7			
NOTE: Schedule reflects DSB recommended adjustment Engine Unit Costs are per ship set (SS) of 4 engines										

EXHIBIT P-22a

P-1 Shopping List

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Exhibit P-43

SIMULATOR AND TRAINING DEVICE JUSTIFICATION SHEET						DATE 20-Jan-94	
APPROPRIATION/P-1 Line Item			Weapon System		Equipment Nomenclature		Program Element
3010			C-17A		Aircrew Training System		41130F 64770F
Fin Plan	Prior Years	Current (FY)94	FY(BY1)95	FY(BY2)96	FY(BY2+1)97	FY(BY2+2)98	FY(BY2+3)99
Quantity		1	2	2			5
Procurement	118.8	8.8	36.7	39.7	0.0	0.0	0.0
RDT&E	0.1	0.0	0.0	0.0	0.0	0.0	0.0
O&S	4.0	5.5	6.5	9.1	0.0	0.0	0.0
						To Complete	Total
							204.0
							0.1
							25.1
<b>TRAINING SYSTEM DESCRIPTION:</b>  Provides initial and continuous training for C-17 aircrew members. Training will be totally contractor administered and supported with AMC evaluating the final product, a fully qualified aircrew member. The training will be developed concurrently with the aircraft development and production efforts. The Aircrew Trainin gSystem (ATS) consists of: Weapons Systems Trainers, System Simulator. The mix or blend of the components depend on the base or schoolhouse they are being delivered to. The bases involved area: Charleston AFB, Altus AFB, and two others TBD.							
Procurement funding is included as line 12 on the P-5 exhibit and Operations and Support funding is included under this O-1 line item (program element 41130F)							
P-1 Shopping List					Exhibit P-43, Page 1 of 3 Simulator & Trng Device Justification		

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Exhibit P-43

## SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2) (\$M)

Appropriation/ P-1 Line Item		Weapons System	IOC Date 1-Aug-92		Equipment Nomenclature Aircrew Training System		Program Element 41130F	
Training Device By Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years FY93 Qty Cost	Current Years FY94 Qty Cost	Budget Years FY95 Qty Cost	
ATS/AETC	BASE C	1-Jul-94	1-Aug-94	318		1	0	0.0
ATS/AMC	BASE B	1-May-95	1-Jun-95	224				
ATS/AMC	BASE A	1-Sep-95	1-Oct-95	224			1	28.3
ATS/AMC	BASE C	1-Apr-99	1-Apr-99					
ATS/AMC	BASE A	TBD						
ATS/AMC	BASE A	TBD						
ATS/AMC	BASE D	TBD						
			P-1 Shopping List Item No. 6		Exhibit P-43, Page 2 of 3			

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Exhibit 43

SIMULATOR AND TRAINING DEVICE JUSTIFICATION SHEET (\$ IN MILLIONS)											Date: 20 Jan 94	
Training Device by Type: Aircrew Training Device					Weapon System C-17A							
Description/Justification												
Financial Plan	FY 93		FY 94		FY 95		FY 96		TC		TOTAL	
	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS												
Device (Hardware)		0.0		0.0	1	26.3	0	26.1	1	0.0	2	52.4
ECOs		0.0		0.0				0.0		0.0	0	#VALUE!
Non-Recurring		0.0		0.0		0.0		0.0		0.0	0	0.0
GFE		0.0		0.0		0.0		0.0		0.0	0	0.0
Other (Specify)		1.9		8.3		10.4		13.6		0.0	0	34.2
TOTAL HARDWARE	0	1.9	0	8.3	1	36.7	0	39.7	1	0.0	2	#VALUE!
SUPPORT COSTS												
Special SE		0.0		0.0		0.0		0.0		0.0	0	0.0
Integrated Logistics Support		0.0		0.0		0.0		0.0		0.0	0	0.0
Other (STE, SE/PM, Data)		0.0		0.5		0.0		0.0		0.0	0	0.5
TOTAL SUPPORT COSTS	0	0.0	0	0.5	0	0.0	0	0.0	0	0.0	0	0.5
Software/Courseware											0	0.0
TOTAL COSTS	0	1.9	0	8.8	1	36.7	0	39.7	1	0.0	2	#VALUE!
			P-1 SHOPPING LIST ITEM NO.6			PAGE NO.			EXHIBIT P-43, PAGE 3 OF 3			

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Exhibit P-43

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$M)							DATE	20-Oct-93	
Appropriation/P-1 Line Item 3010			Weapon System (If Applicable) C-17 MTD			Equipment Nomenclature MTD		PE 41130F	
Fin Plan	Prior Years	Current FY	BY1	BY2	BY2+1	BY2+2	BY2+3	To Complete	Total
Quantity	0		0	1	0	0	0	0	1
Proc	0.0	41.3	5.0	7.7	0.0	0.0		0.0	54.0
RDT&E	83.5	0.4	3.3	0.0	0.0	0.0	0.0	0.0	87.2
O&S	1.5	1.1	1.5	1.6	0.0	0.0	0.0	0.0	5.7
TRAINING SYSTEM DESCRIPTION:									
<p>System is designed to reduce the maintenance training manning level to the lower skill levels. The system will employ accessibility, reparability, interchangeability features that enable rapid repair at the lowest possible level of training. The Maintenance Training Devices (MTD's) will be integrated with the C-17 Weapon System Development and will emphasize task oriented training. There are 12 devices in a system , and a total of three systems being acquired, one of which is the R&amp;D unit</p>									
P-1 Shopping List Item No.			Page No.		Exhibit P-43, Page 1 of 3 Simulator & Trng Device Justification				

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Exhibit P-43

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2) (\$M)

Appropriation/ P-1 Line Item		Weapons System C-17A		IOC Date 1-Aug-92		Equipment Nomenclature Maintenance Training Device			Program Element 41130F	
Training Device By Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years FY93 Qty	Current Years FY94 Qty	Budget Years FY95 Cost			
MTD/AMC MTD/AMC	BASE A BASE D	FY99 TBD	FY99 TBD	TBD TBD			0			0.0
P-1 Shopping List Item No. 6						Exhibit P-43, Page 2 of 3				

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Exhibit 43

## SIMULATOR AND TRAINING DEVICE JUSTIFICATION SHEET (\$ IN MILLIONS)

Date: 20 Jan 94

Training Device by Type: Maintenance Trainers Device

Weapon System C-17A

Description/Justification: Satisfies training requirements that cannot be done in the aircraft and improves pilot efficiency in initial and continuation training.

Financial Plan		FY 93		FY 94		FY 95		FY 96		TC		TOTAL	
		QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
HARDWARE COSTS													
Device (Hardware)			0.0		0.0	0	0.0	0	0.0	0	0.0	0	0.0
ECOs			0.0		3.5		0.0		0.0		0.0	0	3.5
Non-Recurring			0.0		0.0		0.0		0.0		0.0	0	0.0
GFE			0.0		0.0		0.0		0.0		0.0	0	0.0
Other (System Updates)			0.0		37.8		0.0		0.0		0.0	0	37.8
Block Updates			0.0		0.0		5.0		7.7		0.0	0	12.7
TOTAL HARDWARE		0	0.0	0	41.3	0	5.0	0	7.7	0	0.0	0	54.0
SUPPORT COSTS													
Special SE			0.0		0.0		0.0		0.0		0.0	0	0.0
Integrated Logistics Support			0.0		0.0		0.0		0.0		0.0	0	0.0
Other (STE, SEPM, Data)			0.0		0.0		0.0		0.0		0.0	0	0.0
TOTAL SUPPORT COSTS		0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Software/Courseware												0	0.0
TOTAL COSTS		0	0.0	0	41.3	0	5.0	0	7.7	0	0.0	0	54.0
P-1 SHOPPING LIST ITEM NO.6													
EXHIBIT P-43, PAGE 3 OF 3													

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## EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: C-17A

## I. Procurement Program:

	Service	Other Service	FMS/Other
FY BY 95	6	N/A	N/A
FY CY 94	6		
FY PY 93	6		

## II. Hardware (Unit Cost) (Provide for each P-5, P-12, or P-22, Flyaway stub entry)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
<b>Airframe</b>					
	276.8	-1.5	275.3	-5.4	269.9

## Reason for Change:

FY93-94 Effects of Learning  
FY94-95 Effects of Learning

**Engine**

24.2	0.5	24.7	-1.0	23.7
------	-----	------	------	------

## Reason for Change:

FY93-94 Commercial Pricing Formula / Inflation  
FY94-95 Commercial Pricing Formula

**Avionics: GFE**

0.9	0.0	0.9	0.0	0.9
-----	-----	-----	-----	-----

## Reason for Change:

FY93-94  
FY94-95

New effect of inflation offset by increased learning

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## EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: C-17A

H. Hardware (Unit Cost) (Provide for each P-5, P-12, or P22, Flyaway stub entry) (cont.)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
<b>ECO</b>	8.3	3.1	11.4	11.6	23.0

Reason for Change:

FY93-94	Incorporated Changes as a Result of Flight Test
FY94-95	Incorporated Changes as a Result of Flight Test

**Nonrecurring Costs**

44.4	-13.4	31.0	166.7	197.7
------	-------	------	-------	-------

Reason for Change:

FY93-94	Slowdown in IMIP Investment
FY94-95	Incorporation of Cost Reduction Efforts in concert with DSB cost reduction and productivity improvement recommendations

**HAZMAT**

0.0	0.0	0.0	140.0	140.0
-----	-----	-----	-------	-------

Reason for Change:

FY93-94	Funding required to reduce Ozone-Depleting compounds and other Hazardous materials in accordance with public law and Air Force policy.
FY94-95	

**SETTLEMENT**

0.0	0.0	0.0	178.0	178.0
-----	-----	-----	-------	-------

Reason for Change:

FY93-94	Funding increased to implement proposed C-17 settlement
FY94-95	

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**WEAPON SYSTEM COST DATA SHEET**  
**(TOA, Dollars in Thousands)**

III. Procurement Support (Total Cost) (Explain difference for each support stub entry) (cont.)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
<b>Peculiar Support Equipment</b>					
Reason for Change:					
FY93-94					
FY94-95	45.7	62.8	108.5	21.0	129.5
	Funding increased for software support and continuation of base level support equipment.				
	Funding increased for Base Level support equipment acquisition.				
<b>Training</b>	1.9	48.2	50.1	-8.4	41.7
Reason for Change:					
FY93-94					
FY94-95					
	Update of Maintenance Trainer Device				
	Acquisition of Aircrew Training System				
<b>Data</b>	21.0	-6.2	14.8	16.9	31.7
Reason for Change:					
FY93-94					
FY94-95					
	Postponement of Depot Publications to FY97				
	Completion of O&I Tech Publications				
<b>Common Support Equipment</b>	18.2	13.9	32.1	2.6	34.7
Reason for Change:					
FY93-94					
FY94-95					
	CSE Funding included in BA-2, acquisition of enroute base CSE				
	Enroute base CSE completed in FY94				



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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE:	
P-1 ITEM NOMENCLATURE						18-Feb-94	
APPROPRIATION/BUDGET ACTIVITY						HC-130H	
AIRCRAFT PROCUREMENT/ AF BA02							
AIRLIFT AIRCRAFT							
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY	2						
COST (In Millions)	99.0						

MISSION AND DESCRIPTION:

The HC-130 Aircraft as operated by the Air National Guard (ANG) is capable of performing two essential missions. The first mission is to conduct aerial refueling support for helicopter receivers. Secondly, this very capable aircraft is able to conduct life saving search and rescue (SAR) missions worldwide.

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P-1 Shopping List

EXHIBIT P-40

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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE
APPROPRIATION/BUDGET ACTIVITY						
P-1 ITEM NOMENCLATURE						
AIRCRAFT PROCUREMENT, AF/BA02, OTHER AIRCRAFT						C-130H
	FY(PY)93	FY(CY)94	FY(BY)95	FY(BY)96	FY(BY+1)97	FY(BY+2)98
QUANTITY	8	0	0	0	0	0
COST	287.1	53.6	50.0	0.0	0.0	0.0
(in Millions)						
MISSION AND DESCRIPTION:						
<p>The C-130H provides the immediate and responsive air movement and delivery of combat troops and supplies directly into objective areas through airlanding, extraction, airdrop, or other delivery techniques; and the air logistics support of all theater forces, including those engaged in combat operations, to meet specific theater objectives and requirements. It is a medium size tactical transport powered by four T-56-A-15 turboprop engines. It has a ferry range of 4,200 NM, a service ceiling of 35,000 feet, and a cruise speed of 315 knots, and can carry a payload of 40,174 pounds. The Air Force is designated Executive Service for the C-130H production contract.</p>						
FY94/95 PROGRAM JUSTIFICATION:						
<p>The FY94/95 program provides for support cost requirements for the FY92-93 ACC A/C.</p>						
COOPERATIVE AGREEMENTS: N/A						

EXHIBIT P-40

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AIRCRAFT COST ANALYSIS (Dollars in Millions)	A. Aircraft Model		B. Popular Name		C. Manufacturer		D. Date	
	C-130H		HERCULES		LOCKHEED		7 Feb 94	
	FY93	QTY 8	FY94	QTY 0	0.0	QTY 0		
	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost		
1. AIRFRAME	26.0	208.3						
2. ENGINES/ACCESSORIES (4 PER A/C)	3.2	25.7						
ALLISON T56-15)	0.0							
3. AVIONICS	0.0							
4. ARMAMENT								
5. OTHER GFE	0.0							
6. ECO (ALL FLYAWAY COMPONENTS)	0.7	5.6						
7. NON-RECURRING COSTS	0.3	2.2						
8. OTHER COSTS	0.0							
9. FLYAWAY COSTS	30.2	241.8	0.0	0.0	0.0	0.0		
10. AIRFRAME PGSE		17.8		1.0		2.2		
11. ICSE		0.0		4.8		4.8		
12. MISSION SUPPORT		1.5		2.0		2.1		
13. PECULIAR TRAINING EQUIPMENT		12.9		25.8		26.9		
14. PUBLICATIONS/TECH. DATA		3.0		5.0		5.0		
15. ECO (ALL SUPPORT ITEMS)		0.0		0.0		0.0		
16. ICS		10.1		15.0		9.0		
17. SUPPORT COST		45.3		53.6		50.0		
18. GROSS P-1 COST	35.9	287.1	0.0	53.6	0.0	50.0		
19. LESS: PRIOR YR ADV. PROC.								
20. NET P-1 COST	35.9	287.1	0.0	53.6	0.0	50.0		
NOTE:								

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**EXHIBIT P-21**  
**Notes:**



PROCUREMENT HISTORY & PLANNING										A. DATE 7 Feb 1994	
B. APPROPRIATION/BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
AIRCRAFT PROCUREMENT AF/BA02/AIRLIFT AIRCRAFT											
C-130H HERCULES											
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	P/R RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
AIR/VEHICLE											
FY93	LOCKHEED	FP	AFMC	JAN 93	MAR 93	AUG 94	8	28.0	YES		
PROPULSION											
FY93	ALLISON	PF	AFMC	FEB 93	APR 93	SEP 93	8	3.2	YES		
REMARKS:  AIR VEHICLE: FY93 AC are being bought under a prior year contract that includes an option for FY1993 aircraft.  ENGINES: Award dates shown above are option exercise dates. San Antonio Air Logistic Center											

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P-1 Shopping List

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## EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: C-130H

## I. Procurement Program:

Service Other Service FMS/Other

FY PY 93

8

## II. Hardware (Unit Cost) (Provide for each P-5, P-12, or P-22, Flyaway stub entry)

FY (PY) 93 DIFF FY (CY) 94 DIFF FY (BY) 95

Airframe

26.0

-26.0

0.0

0.0

Reason for Change:

FY93-94

FY94-95

No aircraft procurement in FY94

N/A

Reason for Change:

FY93-94

FY94-95

Production startup not incurred in the lot II  
Inflationary change

Engine/Accessories

3.2

-3.2

0.0

0.0

Reason for Change:

FY93-94

FY94-95

No aircraft procurement in FY94

N/A

Avionics: CFE

0.0

0.0

0.0

0.0

Reason for Change:

FY93-94

FY94-95

N/A

N/A

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EXHIBIT P-44

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## EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: C-130H

## II. Hardware (Unit Cost) (Provide for each P-5, P-12, or P22, Flyaway stub entry) (cont.)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
<b>Avionics GFE</b>	0.0	0.0		0.0	
Reason for Change:					
FY93-94	N/A				
FY94-95	N/A				
<b>Armament</b>	0.0	0.0		0.0	
Reason for Change:					
FY93-94					
FY94-95					
<b>Other GFE</b>	0.7	-0.7		0.0	
Reason for Change:					
FY93-94	No aircraft procurement in FY94				
FY94-95	N/A				
<b>ECO</b>	0.3	-0.3		0.0	
Reason for Change:					
FY93-94	No aircraft procurement in FY94				
FY94-95	N/A				

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EXHIBIT P-44

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## EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: C-130H

## Nonrecurring Costs

0.3      -0.3      0.0

## Reason for Change:

FY93-94

N/A

FY94-95

N/A

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## III. Procurement Support (Total Cost) (Explain difference for each support stub entry) (cont.)

FY (P) 93      DIFF      FY (CY) 94      DIFF      FY (BY) 95

## Interim Contractor Support

10.1      4.9      15.0      -6.0      9.0

## Reason for Change:

FY93-94

Increase represents ICS for a larger quantity of field aircraft.

FY94-95

Decrease results from achieving organic repair capability for some items.

## Airframe PGSE

17.8      -16.8      1.0      1.2      2.2

## Reason for Change:

FY93-94

Additional support equipment procurement essentially complete by end of FY93

FY94-95

Residual Peculiar Support Equipment identified after fielding aircraft.

## Mission Support

1.5      0.5      2.0      0.1      2.1

## Reason for Change:

FY93-94

Additional contractor activities for acquisition support plus inflation.

FY94-95

Contractor support plus inflation.

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EXHIBIT P-44

## EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: C-130H

ICSE

0.0 4.8 4.8 0.0 4.8

Reason for Change:

FY93-94

FY94-95

ICSE budgeted as part of weapon system line beginning in FY1994  
N/A*Peculiar Training Equipment*

12.9 12.9 8-8 25.8 1.1 26.9

Reason for Change:

FY93-94

FY94-95

Procurement of new training equipment identified during initial aircraft fielding.  
Peculiar Training Equipment plus inflation.*Pubs/Tech Data*

3.0 2.0 5.0 0.0 5.0

Reason for Change:

FY93-94

FY94-95

Revisions of tech order data as system matures in the field.  
N/A

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EXHIBIT P-44

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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET							DATE:
							18-Feb-94
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE				
AIRCRAFT PROCUREMENT/ AF BA02 AIRLIFT AIRCRAFT			NONDEVELOPMENT AIRLIFT AIRCRAFT				
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY							
COST (In Millions)		97.9	153.7				
<b>MISSION AND DESCRIPTION:</b> Funding supports acquisition of an existing commercial or military nondevelopmental airlifter.							
(P-40)							

EXHIBIT P-40

P-1 Shopping List

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BUDGET ITEM JUSTIFICATION SHEET						DATE
APPROPRIATION/BUDGET ACTIVITY						Feb 94
Aircraft Procurement/BA03, Combat Aircraft						P-1 ITEM NOMENCLATURE
						T-34 Enhanced Flight Screener (EFS)
QUANTITY	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998
	42	33	0	0	0	0
COST						
(In Millions)	12.5	9.9				

## MISSION AND DESCRIPTION:

The T-3A Enhanced Flight Screener (EFS) is required to provide a uniform Air Force flight screening program. T-3A will ensure AETC ability to select the best qualified candidates for Specialize Undergraduate Pilot Training (SUPT) and reduce the attrition rate in SUPT through comprehensive screening. The T-3A aircraft is Slingsby's M200 Firefly missionized with avionics and a larger engine (New designation is the M260). T-3A is a commercial replacement to the single-engine, high wing T-41A based at Hondo, TX and the United State Air Force Academy (USAF). The aircraft will be certified IAW Federal Aviation Regulation (FAR) part 23 acrobatic standards.

## FY94 PROGRAM JUSTIFICATION:

Procurement of 33 additional aircraft is scheduled for FY94. Uninterrupted procurement of the required aircraft is necessary to ensure screening standardization in a single, dedicated aircraft (T-3A).

FY95 PROGRAM JUSTIFICATION: N/A

COOPERATIVE PROGRAMS: N/A

P-1 Shopping List

EXHIBIT P-40

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AIRCRAFT COST ANALYSIS (Dollars in millions)	A. Aircraft Model T-3A		B. Popular Name EFS		C. Manufacturer Slingsby Aviation Ltd.		D. Date: Feb-94
	FY 93 Unit Cost	QTY 42 Total Cost	FY 94 Unit Cost	QTY 33 Total Cost	FY 95 Unit Cost	QTY Total Cost	
PROGRAM ITEM							
1. Airframe/CFE	0.3	12.2	0.3	9.2	0	0	
2. Engine/Accessories ( per A/C (Eng Model: )	0		0		0	0	
3. Avionics: CFE	0		0		0	0	
GFE	0		0		0	0	
4. Armament	0		0		0	0	
5. Other GFE	0		0		0	0	
6. ECO (All Flyaway Components)	0		0	0.7	0	0	
7. Non-recurring Costs	0		0		0	0	
8. Other Costs	0		0	0	0	0	
9. Flyaway Costs	0.3	12.2	0.3	9.9	0	0	
10. Airframe PGSE		0.1		0		0	
11. Engine PGSE						0	
12. Avionics PGSE						10	
13. Peculiar Training Equipment						0	
14. Publications/Tech. Data						0	
15. ECO (All Support Items)		0.2		0		0	
16. Other (ICS & ICSE)		0.3				0	
17. Support Cost		0.3		0.1		0	
18. Gross P-1 Cost		12.5		10	0	0	
19. Less: Prior Yr Adv. Proc.						0	
20. Net P-1 Cost	0.3	12.5	0.3	10	0	0	
NOTE: Unit Flyaway cost does not include non-recurring costs. * Unit cost less than \$50K							
Exhibit P-5							

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P-22a

PROCUREMENT HISTORY & PLANNING							A. DATE			
B. APPROPRIATION/BUDGET ACTIVITY							7 Feb 1994			
C. P-1 ITEM NOMENCLATURE										
T-3A - ENHANCED FLIGHT SCREENER (EFS)										
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
AIRFRAME										
FY93	SLINGSBY AVIATION LTD	FFP	AFMC/ASC	MAR 93	JUL 94	42	0.3	YES	YES	JAN 94
FY94	SLINGSBY AVIATION LTD	FFP	AFMC/ASC	MAR 94	APR 95	33	0.3	YES	YES	JAN 94
FY95	N/A									
PROPULSION										
FY93	Pratt & Whitney	FFP	AMC/ASC	FEB 94	JUL 94	6 S/S	24.7			
FY94	Pratt & Whitney	FFP	AMC/ASC	FEB 95	JUN 95	6 S/S	23.7			
FY95	N/A									
NOTE:										

EXHIBIT P-22a

P-1 Shopping List

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UNCLASSIFIED

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**WEAPON SYSTEM COST DATA SHEET**  
(TOA, Dollars in Thousands)

DATE: FEBR

Weapon System: T-3A Enhanced Flight Screener (EFS)

## I. Procurement Program:

	Service	Other Service	FMS/Other
1st BY FY 95	0		
CY FY 94	33		
PY FY 93	42		

## II. Hardware (Unit Cost) (Provide for each P-5, P-12, or P-22 Flyaway stub entry)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
Satellite	0.3	0.0	0.3	0.3	0.0

## Reason for Change:

FY93-94	No change
FY94-95	FY 94 is the last buy-year

## III. Procurement Support (Total Cost) (Explain difference for each support stub entry)

PGSE	0.1	0.1	0	0
------	-----	-----	---	---

## Reason for Change

FY 93-94	Most of the articles are bought in FY 92 & FY 93.
FY 94-95	FY 94 is the 1st buy-year.

EXHIBIT P-44



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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE: 7-Feb-94	
<b>APPROPRIATION/BUDGET ACTIVITY:</b> Aircraft Procurement/BA03, Trainer Aircraft				<b>P-1 ITEM NOMENCLATURE:</b> Joint Primary Aircraft Training System (JPATS)			
<b>QUANTITY</b>	<b>FY(PY)93</b>	<b>FY(CY)94</b>	<b>FY(BY)95</b>	<b>FY(BY2)96</b>	<b>FY(BY+1)97</b>	<b>FY(BY+2)98</b>	<b>FY(BY+3)99</b>
	0	0	3	10	24	36	48
<b>COST</b>							
(In Millions)	\$0.0	\$0.0	\$123.3	\$134.0	\$188.0	\$257.9	\$301.2
<b>MISSION AND DESCRIPTION:</b> JPATS is planned as a joint USAF/USN venture to replace the Services' fleets of primary trainer aircraft (T-37/T-34 respectively) and associated Ground Based Training System (GBTS). The USAF's T-37 aircraft average over 30 years of age. They have antiquated, increasingly unsupportable and non-representative avionics as well as underpowered and fuel inefficient engines. Cockpits are unpressurized, resulting in the largest number of physiological incidents in the Air Force. The USAF will serve as the Lead or Executive Service.  The JPATS program will acquire a non-developmental aircraft. Missionization may occur after contract award.  <b>FY94 PROGRAM JUSTIFICATION:</b> N/A  <b>FY95 PROGRAM JUSTIFICATION:</b> Procure 3 aircraft and associated support. Aircraft are required to begin student training at Randolph AFB, TX to meet the planned FY00 IOC.							
<b>COOPERATIVE PROGRAMS:</b> N/A							

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AIRCRAFT COST ANALYSIS (Dollars in Millions)	AIRCRAFT MODEL;		POPULAR NAME:		MANUFACTURER:	DATE:
FY95PB			JOINT PRIMARY AIRCRAFT TRAINING SYSTEM		TBD	7-Feb-94
	FY 93	QTY 0	FY 94	QTY 0	FY 95	QTY 3
	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1. AIRFRAME/GFE	0.0	0.0	0.0	0.0	8.7	26.1
2. ENGINE/ACCESSORIES (ENG MODEL: TBD)	0.0	0.0	0.0	0.0	0.0	0.0
3. AVONICS: CFE	0.0	0.0	0.0	0.0	0.6	1.9
GFE	0.0	0.0	0.0	0.0	0.0	0.0
4. ARMAMENT	0.0	0.0	0.0	0.0	0.0	0.0
5. OTHER GFE	0.0	0.0	0.0	0.0	0.0	0.0
6. ECO (ALL FLYAWAY COMPONENT	0.0	0.0	0.0	0.0	1.0	3.0
7. NON-RECURRING COSTS	0.0	0.0	0.0	0.0	0.0	50.7
8. OTHER COSTS	0.0	0.0	0.0	0.0	0.0	0.0
9. FLYAWAY COSTS	0.0	0.0	0.0	0.0	10.3	81.7
10. AIRFRAME PGSE						
11. ENGINE PGSE						
12. AVONICS PGSE						1.9
13. PECULIAR TRAINING						9.5
14. PUBLICATIONS, TECH DATA						
15. ECO (ALL SUPPORT ITEMS)						30.2
16. OTHER						
17. SUPPORT COSTS		0.0		0.0		41.6
18. GROSS P-1 COST		0.0		0.0		123.3
19. LESS: PRIOR ADV PROC		0.0		0.0		0.0
20. NET P-1 COST		0.0		0.0	41.1	123.3
REMARKS:						
(1) UNIT FLYAWAY COST DOES NOT INCLUDE NON-RECURRING COSTS.						
(2) ENGINE IS INCLUDED WITH AIRFRAME AS CFE. SE/PM IS ALSO INCLUDED IN AIRFRAME.						
(3) 'OTHER' INCLUDES AWARD FEE, TEST, SITE ACTIVATION/PRE-OPS PLANNING, ICS.						

EXHIBIT P-5

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UNCLASSIFIED



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PROCUREMENT HISTORY AND PLANNING										A. DATE: 7-Feb-94	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE						
FY 95 PB AIRCRAFT PROCUREMENT					JOINT PRIMARY TRAINING SYSTEM (JPTS)						
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	P/R RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES WHEN AVAIL
AIR VEHICLE FY93 FY94 FY95	TBD	FPA/OPTION	AFMC/JASC	TBD	Jul-95	Dec-97	3	10.3	NO		
PROPULSION	N/A										
REMARKS:											

P-1 SHOPPING LIST

EXHIBIT P-22a

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SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$M)										DATE 07 FEB 94	
Appropriation/P-1 Line Item 3010			Weapon System (If Applicable) JPATS S-AF				Equipment Nomenclature		PE 84740F		
Fin Plan	Prior Years	Current FY	BY95	BY96	BY97	BY98	BY99	Total			
Quantity	0	0	0	0	1	10	4	15			
Proc	0.0	0.0	0.0	0.0	17.0	23.6	11.1	51.6			
RDT&E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
O&S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TRAINING SYSTEM DESCRIPTION:											
Training will consist of a single primary phase (JPATS) and a dual advanced phase in either the T-1A or T38 aircraft.											
The objective of both the Navy and the Air Force is to jointly acquire an integrated training system using similar hardware with like capabilities.											
Components of the system include simulators, curricula, contract logistic support, and aircraft. This project represents the ground based training portion of the system.											

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**Exhibit P-43**

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## UNCLASSIFIED

Exhibit P-43

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$M)												DATE: 07 FEB 94	
Training Device by Type		OFT				Weapon System (If Applicable)							
Description/Justification													
Financial Plan	Prior Years		Current Year 94		Budget Year 95		Cost to Complete		Total Cost				
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS													
Device (Hardware)							9	89.6				89.6	
ECOs								14.6				14.6	
Nonrecurring												0.0	
GFE												0.0	
Total Hardware Costs		0.0		0.0		0.0		104.2				104.2	
SUPPORT COSTS													
Special SE									0.8			0.8	
Integrated Logistics Supt												0.0	
Other (Specify)									31.2			31.2	
Total Support Costs		0.0		0.0		0.0		32.1				32.1	
Software/Courseware												0.0	
TOTAL COSTS		0.0		0.0		0.0	9	136.3		9		136.3	
										EXHIBIT P-43, Page 3 of 4			

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## UNCLASSIFIED

Exhibit P-43

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 4) (\$M)											DATE: 07 FEB 94	
Training Device by Type		IFT		Weapon System (If Applicable)								
Description/Justification												
Financial Plan	Prior Years		Current Year 94		Budget Year 95		Cost to Complete		Total Cost			
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost		
HARDWARE COSTS												
Device (Hardware)					17	80.6				80.6		
ECOs						13.1				13.1		
Nonrecurring										0.0		
GFE										0.0		
Total Hardware Costs		0.0		0.0		0.0		93.8		93.8		
SUPPORT COSTS												
Special SE								0.7		0.7		
Integrated Logistics Supt										0.0		
Other (Specify)								28.1		28.1		
Total Support Costs		0.0		0.0		0.0		28.9		28.9		
Software/Courseware										0.0		
TOTAL COSTS		0.0		0.0		0.0	17	122.6		122.6		
											EXHIBIT P-43, Page 4 of 4	
											Page No.	
											P-1 Shopping List Item No.	
											12-8	

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

WEAPON SYSTEM: JPATS

DATE: 7-Feb-94

I. Procurement Program:

FY BY 95  
FY CY 94  
FY PY 93

Service Other Service FMS/Other

3  
0  
0

FY(PY) 93 DIFF FY(CY)94 DIFF FY(BY)95

AIRFRAME

0 0 0 8.7 8.7

REASON FOR CHANGE:

FY93-94  
FY94-95

INITIAL CONTRACT AWARD

ENGINE/ACCESSORIES

REASON FOR CHANGE:

FY93-94  
FY94-95

AVONICS: CFE

0 0 0 0.6 0.6

REASON FOR CHANGE:

FY93-94  
FY94-95

INITIAL CONTRACT AWARD

EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

WEAPON SYSTEM: JPATS

II. Hardware (Unit Cost)

	FY(YY) 93	DIFF	FY(CY)94	DIFF	FY(BY)95
--	-----------	------	----------	------	----------

AVONICS: GFE

REASON FOR CHANGE:

FY93-94  
FY94-95

ARMAMENT

REASON FOR CHANGE:

FY93-94  
FY94-95

OTHER GFE

REASON FOR CHANGE:

FY93-94  
FY94-95

Eco

0	0	0	0	1.0	1.0
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REASON FOR CHANGE:

FY93-94  
FY94-95

INITIAL CONTRACT AWARD

EXHIBIT P-44

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UNCLASSIFIED

**WEAPON SYSTEM COST DATA SHEET**  
**(TOA, Dollars in Thousands)**

**DATE:** 7-Feb-94

	FY(P/Y) 93	DIFF	FY(C/Y)94	DIFF	FY(B/Y)95
--	------------	------	-----------	------	-----------

**FY93-94**

**FY94-95**

**FY93-94**  
**FY94-95**

FY93-94  
FY94-95

FY93-94  
FY94-95

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

WEAPON SYSTEM: JPATS

III. Procurement Support (Total Cost) (Cont.)

	FY(PY) 93	DIFF	FY(CY)94	DIFF	FY(BY)95
PECULIAR TRAINING	0	0	0	1.9	1.9

REASON FOR CHANGE:

FY93-94  
FY94-95

INITIAL CONTRACT AWARD

PUBS/TECH DATA	0	0	0.0	9.5	9.5
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REASON FOR CHANGE:

FY93-94  
FY94-95

INITIAL CONTRACT AWARD

ECO (SUPPORT)

REASON FOR CHANGE:

FY93-94  
FY94-95

OTHER	0	0	0	30.2	30.2
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REASON FOR CHANGE:

FY93-94  
FY94-95

START OF OT&E AND AWARD FEE

EXHIBIT P-44

UNCLASSIFIED

P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE:	
						Feb-94	
AIRCRAFT PROCUREMENT /BA 03 TRAINER AIRCRAFT		P-1 ITEM NOMENCLATURE T-1 TANKER-TRANSPORT TRAINING SYSTEM					
QUANTITY	FY(PY)93 36	FY(CY)94 35	FY(BY)95 32	FY(BY2)96 0	FY(BY+1)97 0	FY(BY+2)98 0	FY(BY+3)99 0
COST (In Millions)	\$156.6	\$140.8	\$155.2	\$15.4	\$11.5	\$0.0	\$0.0
<b>MISSION AND DESCRIPTION:</b> This program is the cornerstone in the Air Force's plan to return to Specialized Undergraduate Pilot Training (SUPT). The program is an integral part of the DOD 1989 Trainer Master Plan submitted to Congress in Feb 1989. The T-1A is a Beech 400T aircraft missionized with an avionics suite representative in task management and function of current and projected operational aircraft. The ground based training system is comprised of courseware and training media and simulators. The program entered the production phase beginning with the initial contract award (Feb 90). Two of the five AETC bases were completed during FY93 (Reese AFB and Randolph AFB). Laughlin AFB was started in FY94 (Nov 93). As of 31 Dec 93, 4 classes (85 students) have been trained with the T-1A with 100% of the students graduating.							
<b>FY94 PROGRAM JUSTIFICATION:</b> Procurement of the negotiated option for 35 aircraft was completed in Dec 93. Uninterrupted procurement of the required aircraft is necessary to ensure the planned training schedule is maintained. With this procurement, HQ AETC can continue to transition into SUPT.							
<b>FY95 PROGRAM JUSTIFICATION:</b> Procurement of the negotiated fifth and final program option for 32 aircraft is scheduled for FY95 (Dec 94). Uninterrupted procurement of the required aircraft is necessary to ensure the planned training schedule is maintained. With this procurement, HQ AETC can continue to transition into SUPT.							
<b>COOPERATIVE PROGRAMS:</b> N/A							

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AIRCRAFT COST ANALYSIS (Dollars in Millions)	AIRCRAFT MODEL:	POPULAR NAME:	MANUFACTURER:	DATE:
FY95PB	T-1A	T-1A TRAINING SYSTEM (TANKER-TRANSPORT)	MCDONNELL DOUGLAS TRAINING SYSTEMS (MDTS)	Feb 94
	FY 93	QTY 38	QTY 35	QTY 32
	UNIT COST	FY 94 UNIT COST	FY 95 UNIT COST	TOTAL COST
1. AIRFRAME/GFE	3.9	139.1	137.7	132.5
2. ENGINE/ACCESSORIES (ENG MODEL: F100,F110)				
3. AVIONICS: CFE GFE				
4. ARMAMENT				
5. OTHER GFE				
6. ECO (ALL FLYAWAY COMPONENTS)				
7. NON-RECURRING COSTS				
8. OTHER COSTS				
9. FLYAWAY COSTS	3.9	139.1	137.7	132.5
10. AIRFRAME PGSE				6.6
11. ENGINE PGSE				
12. AVIONICS PGSE		7.9	0.0	7.3
13. PECULIAR TRAINING EQUIPMENT		2.0	1.6	1.5
14. PUBLICATIONS, TECH DATA		4.9	0.5	6.9
15. ECO (ALL SUPPORT ITEMS)		2.7	1.0	0.4
16. OTHER				
17. SUPPORT COSTS		17.5	3.1	22.7
18. GROSS P-1 COST		156.6	140.8	155.2
19. LESS: PRIOR ADV PROC		0.0	0.0	0.0
20. NET P-1 COST		156.6	140.8	155.2
REMARKS:				

EXHIBIT P-5

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PROCUREMENT HISTORY AND PLANNING										A. DATE: 7-Feb-94	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
FY 95 PB AIRCRAFT PROCUREMENT				T-1A TRAINING SYSTEM (TANKER-TRANSPORT)							
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	PIR RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES WHEN AVAIL
AIR VEHICLE FY93	MDTS, St Louis Mo	FFP *	AFMCI/ASC	Dec-92	Dec-92	Jul-94	36	3.9	YES	NO	
FY94	MDTS, St Louis Mo	FFP	AFMCI/ASC	Dec-93	Dec-93	Jul-95	35	3.9	YES	NO	
FY95	MDTS, St Louis Mo	FFP	AFMCI/ASC	Dec-94	Dec-94	Jul-96	32	4.1	YES	NO	
PROPULSION	N/A										
REMARKS: Propulsion Costs are included in the air vehicle price on this program. * FIRM FIXED PRICE											

P-1 SHOPPING LIST

EXHIBIT P-22a

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**Exhibit P-43**

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$M)										DATE
Appropriation/P-1 Line Item			Weapon System (If Applicable)				Equipment Nomenclature		7-Feb-94	
Fm Plan	Prior Years	Current FY	BY1	BY2	BY2+1	BY2+2	BY2+3	Total	PE	
Quantity	8	0		1	0	0	0	9	847145/	
Proc	75.1	0.0		7.3	11.3	9.5	0.0	103.2	84740F	
RDT&E	0.0	0.0		0.0	0.0	0.0	0.0	0.0		
O&S	0.0	0.0		0.0	0.0	0.0	0.0	0.0		

### TRAINING SYSTEM DESCRIPTION:

The T-1A (Tanker-Transport) Training System is required to implement Specialized Undergraduate Pilot Training. The Ground Based Training System (GBTS) portion will include compatible simulators, mock-ups, courseware, syllabus, and student management instrument approaches, crew coordination, asymmetric thrust situations, airdrop fundamentals, low-level navigation, airborne rendezvous, and cell formation.

P-1 Shopping List	Page No.	Exhibit P-43, Page 1 of 3
Item No.		Simulator & Trng Device J ustification
	13-5	

**UNCLASSIFIED**



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SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$M)												DATE: 7 FEB 94	
Training Device by Type		T-1A TS		Weapon System (If Applicable)									
Description/Justification: The T-1A Ground based Training System includes procuring and deploying the courseware and training media (including 9 simulators) to support Specialized Undergraduate Pilot Training.													
Financial Plan		FY(PY)93		FY(CY)94		FY(BY)95		Cost to Complete		Total Cost			
		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost		
HARDWARE COSTS													
Device (Hardware)		1	5.6	0	0.0	1	7.2	0	0.0	2	12.8		
ECOs			0.8		0		0		0		0.8		
Nonrecurring			0		0		0		0		0		
GFE			1.5		0		0.1		0		1.6		
Other (Specify)			0		0		0		0		0		
Total Hardware Costs			7.9		0.0		7.3		0.0		15.2		
SUPPORT COSTS													
Special SE											0		
Integrated Logistics Supt											0		
Other (Specify)											0		
Total Support Costs			0.0		0.0		0.0		0.0		0		
Software/Courseware											0		
TOTAL COSTS			7.9		0.0		7.3		0.0		15.2		
												EXHIBIT P-43, Page 3 of 3	

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

WEAPON SYSTEM: T-1A TRAINING SYSTEM (TANKER-TRANSPORT)

DATE: 7-Feb-94

I. Procurement Program:

	Service	Other Service	FMS/Other	
FY BY 95	32			
FY CY 94	35			
FY PY 93	36			
	FY(PY) 93	DIFF	FY(CY)94	DIFF
	3.9	0	3.9	0.2
				4.1

AIRFRAME

REASON FOR CHANGE:

FY93-94  
FY94-95

FFP OPTION PRICING

ENGINE/ACCESSORIES

REASON FOR CHANGE:

FY93-94  
FY94-95

AVIONICS: CFE

REASON FOR CHANGE:

FY93-94  
FY94-95

EXHIBIT P-44

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UNCLASSIFIED

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

DATE: 7-Feb-94

WEAPON SYSTEM: T-1A TRAINING SYSTEM (TANKER-TRANSPORT)

II. Hardware (Unit Cost)

FY(PY) 93      DIFF      FY(CY)94      DIFF      FY(BY)95

AVIONICS: GFE

REASON FOR CHANGE:

FY93-94  
FY94-95

ARMAMENT

REASON FOR CHANGE:

FY93-94  
FY94-95

OTHER GFE

REASON FOR CHANGE:

FY93-94  
FY94-95

ECO

REASON FOR CHANGE:

FY93-94  
FY94-95

EXHIBIT P-44

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UNCLASSIFIED

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

DATE: 7-Feb-94

WEAPON SYSTEM: T-1A TRAINING SYSTEM (TANKER-TRANSPORT)

III. Procurement Support (Total Cost) (Cont)

	FY(PY) 93	DIFF	FY(CY)94	DIFF	FY(BY)95
--	-----------	------	----------	------	----------

NON-RECURRING COSTS

REASON FOR CHANGE:

FY93-94  
FY94-95

OTHER COSTS

REASON FOR CHANGE:

FY93-94  
FY94-95

	0	6.6	6.6
--	---	-----	-----

AIRFRAME PGSE

REASON FOR CHANGE:

FY93-94  
FY94-95

ENGINE PGSE

REASON FOR CHANGE:

FY93-94  
FY94-95

EXHIBIT P-44

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UNCLASSIFIED

UNCLASSIFIED

WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

DATE: 7-Feb-94

## WEAPON SYSTEM: T-1A TRAINING SYSTEM (TANKER-TRANSPORT)

## III. Procurement Support (Total Cost) (Cont.)

	FY(PY) 93	DIFF	FY(CY)94	DIFF	FY(BY)95
AVIONICS PGSE					
REASON FOR CHANGE:					
FY93-94					
FY94-95					
PECULIAR TRAINING EQUIPMENTS	7.9	-7.9	0	7.3	7.3
REASON FOR CHANGE:					
FY93-94					
FY94-95					
PUBSTECH DATA	2	-0.4	1.6	-0.1	1.5
REASON FOR CHANGE:					
FY93-94					
FY94-95					
ECO (SUPPORT)	4.9	-4.4	0.5	6.4	6.9
REASON FOR CHANGE:					
FY93-94					
FY94-95					
OTHER	2.7	-1.7	1.0	-0.6	0.4
REASON FOR CHANGE:					
FY93-94					
FY94-95					

DECREASED DUE TO APPROVED PROGRAM CUT OF FY94 SIMULATOR FUNDS  
INCREASED DUE TO PROCUREMENT OF FINAL SIMULATOR

DECREASE DUE TO REDUCED SCOPE OF UPDATES  
DECREASE DUE TO REDUCED SCOPE OF UPDATES

DECREASED DUE TO REVISED INFLATION ESTIMATES  
INCREASED DUE TO REVISED INFLATION ESTIMATES

DECREASE DUE TO FULL FUNDING OF AIRCRAFT STRUCTURAL IMPROVEMENT PROGRAM.  
DECREASE DUE TO COMPLETION OF AWARD FEE PERIODS

EXHIBIT P-44

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P-40 FOR NET P-1 COST		CUDGET ITEM JUSTIFICATION SHEET		DATE 18 FEB 94			
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT, AF/BA04, OTHER AIRCRAFT		P-1 ITEM NOMENCLATURE MH/HH-60G PAVE HAWK PROCUREMENT					
	FY(PY)93	FY(CY)94	FY(BY)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY	10	N/A	N/A	N/A	N/A	N/A	N/A
COST (in Millions)	29.8	0.0	0.0	0.0	0.0	0.0	0.0
<p>MISSION AND DESCRIPTION: The MH/HH-60G is a substantially upgraded UH-60 A/L designed to meet a variety of mission requirements. To upgrade combat mission capability, flexibility, and survivability, the MH/HH-60G will receive extended range, precision low-level tactical navigation, and improved communication and weapon systems. All USAF H-60s will be upgraded to the MH/HH-60G configuration through a series of separate but coordinated modification programs involving contractor and government depot installations. The MH/HH-60G is capable of a wide range of mission taskings in day or night visual meteorological conditions (VMC) including marginal weather operations. The MH/HH-60G will perform multiple missions including special/contingency operations and combat and peacetime rescue.</p> <p>JUSTIFICATION: N/A</p>							

P-1 Shopping List  
Item No. 14-1

EXHIBIT P-40

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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE:	
						18-Feb-94	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
AIRCRAFT PROCUREMENT/ AF BA04 Other Aircraft		Civil Air Patrol					
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY	27	27	27	27	27	27	27
COST (In Millions)	2.7	3.6	1.4	2.6	2.7	2.8	2.9
MISSION AND DESCRIPTION: Funding supports acquisition of aircraft for the Civil Air Patrol (CAP)							

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P-1 Shopping List

EXHIBIT P-40

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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE:	
APPROPRIATION/BUDGET ACTIVITY						P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/ AF BA04 Other Aircraft						Drug Interdiction	
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY							
COST (In Millions)	35.0						
MISSION AND DESCRIPTION: Provides funds to acquire and modify aircraft to support CINCSOUTH "Tracker" requirement.							

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P-1 Shopping List  
Item # 16

EXHIBIT P-40

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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE		
APPROPRIATION/BUDGET ACTIVITY								
AIRCRAFT PROCUREMENT, AF/BA04, OTHER AIRCRAFT								
P-1 ITEM NOMENCLATURE								
Joint STARS								
QUANTITY	FY(PY)93	FY(CY)94	FY(BY)95	FY(BY)96	FY(BY+1)97	FY(BY+2)98	FY(BY+3)99	FY(BY+4)00*
	2	1	2	2	2	2	2	2
COST (in Millions)	496.7	436.5	445.3	407.0	408.0	382.0	378.4	296.8

**MISSION AND DESCRIPTION:**  
 The Joint Surveillance Target Attack Radar System (Joint STARS) is a Joint Army and AF Program, with the AF as the lead service. The Joint STARS system provides real-time surveillance of the battlefield and rear echelons. The system detects, identifies, and tracks enemy armor and vehicular traffic and provides their locations to AF and Army Commanders to assess intentions and manage primary segments (airborne and ground). Joint STARS is unique because it is a closed-loop system for real-time detection, tracking and attack of enemy ground moving targets, using moving target indicator and synthetic aperture radar techniques. Joint STARS integrates the accurate attack of enemy forces by providing position updates and precise enemy location in real-time to direct attack aircraft, friendly artillery and standoff missiles. The Army Corps Commander requires wide area surveillance information to understand enemy force buildups and scheme-of-maneuver, in order to apply effective and timely maneuver of forces, battlefield management, and targeting of artillery and rockets. There is no other system planned to provide real-time wide area surveillance of the Corps battlefield, closed-loop target detection and tracking and real-time attack targeting against first and second echelon armor. JSTARS provides a 2-5 day advanced look at enemy second echelon target detection, tracking and real-time targeting permits the direction of direct attack aircraft, artillery, and standoff missiles against moving ground targets in real-time, compared with current interdiction missions which are performed on a preplanned basis.

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AIRCRAFT COST ANALYSIS (Dollars in Millions)	A. Aircraft Model		B. Popular Name		C. Manufacturer		D. Date	
	E-8C	Joint STARS	Grumman	7 Feb 94				
	FY93	FY94	FY95	FY96	QTY	QTY	QTY	QTY
	Unit Cost	Unit Cost	Unit Cost	Unit Cost	Total Cost	Total Cost	Total Cost	Total Cost
1. AIRFRAME	121.0	120.2	114.8	98.2	240.3	229.6	196.4	196.4
2. AVIONICS: CFE	88.5	76.6	79.6	78.5	153.2	159.1	157.0	157.0
3. ARMAMENT	9.5	3.3	2.8	2.7	6.5	5.5	5.4	5.4
4. OTHER GFE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. ECO (ALL FLYAWAY COMPONENTS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6. NON-RECURRING COSTS	6.8	6.1	6.1	5.6	12.2	12.1	11.1	11.1
7. OTHER COSTS	3.6	0.0	0.0	3.7	7.2	7.4	7.4	7.4
	41.6	38.7	38.2	33.6	77.3	76.4	67.2	67.2
8. FLYAWAY COSTS	270.9	244.8	241.4	222.3	489.5	482.7	444.5	444.5
9. AIRFRAME PGSE								
10. ENGINE PGSE								
11. AVIONICS PGSE	18.8	0.9			0.9	7.5	13.5	13.5
12. GROUND SPT SYS/TRAINING EQUIP	10.3	10.7			10.7	28.9	18.7	18.7
13. PUBLICATIONS/TECH. DATA	51.2	10.8			10.8	46.8	25.5	25.5
14. ECO (ALL SUPPORT ITEMS)								
15. OTHER	0.0	2.9			2.9	3.0	23.7	23.7
16. SUPPORT COST	80.3	25.3			25.3	86.2	81.4	81.4
17. GROSS P-1 COST	270.9	244.8	241.4	222.3	514.8	568.9	525.9	525.9
18. LESS: PRIOR YR ADV. PROC.	-125.4	-78.3			-78.3	-123.6	-118.9	-118.9
19. NET P-1 COST	270.9	244.8	241.4	222.3	436.5	445.3	407.0	407.0
Note: Attached P-43 includes only training equipment and Mission Crew Training Capability (MCTC). It does not include Ground Support System (GSS) Mission Software Facility and Integrated Support Facility in Line 12 above.								

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EXHIBIT P-5

EXHIBIT P-21

DATE: 7 FEB 94

[illegible]

Total Procurement time is taken from the info on the P-22a.

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PROCUREMENT HISTORY & PLANNING										A. DATE	
B. APPROPRIATION/BUDGET ACTIVITY										7 Feb 1994	
C. P-1 ITEM NOMENCLATURE											
AIRCRAFT PROCUREMENT, AF/BAO/OTHER AIRCRAFT										Joint STARS	
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTED BY	P/R RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPEC AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
AIRFRAME											
FY83	GRUMMAN/MELBOURNE	SS/FPF M-4	ESD/JSK	NOV 92	JUN 93	FY86	2	270.9	YES	YES	ONGOING
FY84	GRUMMAN/MELBOURNE	SS/FPF M-4	ESD/JSK	FEB 94	APR 94	FY86	2	244.8	YES	YES	ONGOING
FY85	GRUMMAN/MELBOURNE	SS/FPF M-4	ESD/JSK	NOV 94	JAN 95	FY87	2	241.4	YES	YES	ONGOING
SUPPORT											
FY83	GRUMMAN/MELBOURNE	SS/FPF M-4	ESD/JSK	OCT 83	NOV 93	FY86*	N/A	N/A	YES	YES	ONGOING
FY94	GRUMMAN/MELBOURNE	SS/FPF M-4	ESD/JSK	OCT 94	NOV 94	FY86*	N/A	N/A	YES	YES	ONGOING
FY95	GRUMMAN/MELBOURNE	SS/FPF M-4	ESD/JSK	OCT 95	NOV 95	FY86*	N/A	N/A	YES	YES	ONGOING
NOTE: FIRST 6 AIRCRAFT WILL BE ON A LOW RATE INITIAL PRODUCTION (LRIP) CONTRACT.											
* SS/FPF = Sole Source / Fixed Price Incentive Fee											
* SUPPORT DELIVERY BASED ON DELIVERY OF FIRST AIRCRAFT.											
SS/FPF M-4:											

EXHIBIT P-22a

 P-1 Shopping List  
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 UNCLASSIFIED

## EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: JSTARS

## I. Procurement Program:

	Service	Other Service	FMS/Other
FY BY 95	2	N/A	N/A
FY CY 94	1		
FY PY 93	2		

## II. Hardware (Unit Cost) (Provide for each P-5, P-12, or P-22, Flyaway stub entry)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
<b>Airframe</b>					
	121.0	-0.8	120.2	-5.4	114.8

## Reason for Change:

FY93-94

FY94-95

Production startup not incurred in the lot II  
Additional Learning curve savings

Avionics: CFE

76.6 3.0 79.6

## Reason for Change:

FY93-94

FY94-95

Production startup not incurred in the lot II  
Inflationary change

Avionics: GFE

9.5 -6.3 3.3 -0.5 2.8

## Reason for Change:

FY93-94

FY94-95

GFE procured on a separate schedule from air vehicle  
GFE procured on a separate schedule from air vehicle

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## EXHIBIT P-44

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: JSTARS

## II. Hardware (Unit Cost) (Provide for each P-5, P-12, or P22, Flyaway stub entry) (cont.)

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
<i>Other GFE</i>	0.0	0.0	0.0	0.0	0.0
Reason for Change:					
FY93-94	N/A				
FY94-95	N/A				
<i>ECO</i>	6.8	-0.7	6.1	0.0	6.1
Reason for Change:					
FY93-94					
FY 94-95					
	First availability of reasonable amount commensurate with the risk associated concurrency with d				
	N/A				
<i>Other Costs</i>	41.6	-2.9	38.7	-0.5	38.2
Reason for Change:					
FY93-94					
FY94-95					
	Support efforts are rephased concurrent with production schedule change				
	Support efforts are rephased concurrent with production schedule change				
<i>Nonrecurring Costs</i>	3.6	-3.6	0.0	0.0	0.0
Reason for Change:					
FY93-94					
FY94-95					
	Start up costs				

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**WEAPON SYSTEM COST DATA SHEET**  
(TOA, Dollars in Thousands)

Weapon System: JSTARS

**III. Procurement Support (Total Cost) (Explain difference for each support stub entry) (cont.)**

	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
<i>Publications/Tech Data</i>	51.2	-40.4	10.8	36.0	46.8

Reason for Change:

FY93-94  
FY94-95

These items not related to lot quantity purchase; they are phased to meet depot activation.  
These items not related to lot quantity purchase; they are phased to meet depot activation.

*Avionics PGSE*

18.8	-17.9	0.9	6.6	7.5
------	-------	-----	-----	-----

Reason for Change:

FY93-94  
FY94-95

These items not related to lot quantity purchase; they are phased to meet depot activation.  
These items not related to lot quantity purchase; they are phased to meet depot activation.

*Peculiar Training Equip*

10.3	0.4	10.7	18.2	28.9
------	-----	------	------	------

Reason for Change:

FY93-94  
FY94-95

These items not related to lot quantity purchase; they are phased to meet operational needs.  
These items not related to lot quantity purchase; they are phased to meet operational needs.

*Other (CFTS)*

0.0	2.9	2.9	0.1	3.0
-----	-----	-----	-----	-----

Reason for Change:

FY93-94  
FY94-95

These items not related to lot quantity purchase; they are phased to meet operational needs.  
These items not related to lot quantity purchase; they are phased to meet operational needs.

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BUDGET ITEM JUSTIFICATION SHEET		DATE	
		7 Feb 1994	
P-1 ITEM NOMENCLATURE			
APPROPRIATION/BUDGET ACTIVITY		Joint STARS	
AIRCRAFT PROCUREMENT(ADV BUY),AF/BA04,OTHER AIRCRAFT			
	FY(PY)93	FY(CY)94	FY(BY)95
		2	2
QUANTITY		2	2
			2
			2
COST (in Millions)	78.3	123.6	118.9
		110.7	118.5
		124.6	119.0
			139.3
MISSION AND DESCRIPTION:			
The advanced buy funding identified in FY93 is for long lead procurement of those items detailed on the P-7. It supports the LRIP effort required to meet the IOC of FY97.			
FY 1993 FOR FY 1994	78.3		
FY 1994 FOR FY 1995	123.6		
FY 1995 FOR FY 1996	118.9		
FY 1996 FOR FY 1997	110.7		
FY 1997 FOR FY 1998	124.6		
FY 1998 FOR FY 1999	118.5		
FY1999 FOR FY 2000	119.0		
			139.3

ADVANCE PROCUREMENT REQUIREMENTS (Dollars in Millions)									
PROGRAM: Joint STARS									
Date 7 Feb 1994									
ITEM	PRODUCTION LEADTIME (MONTHS)	FY 93		FY 94		FY 95		FY 96	
		QTY	COST	BUDGET YEAR QTY	COST	BUDGET YEAR QTY	COST	BUDGET YEAR QTY	COST
Radar Subsystem	39		28.3		24		26.7		
Airframe	39	2	0.0	2	19.2	2	20.1		
Refurb	39	2	20.2	2	24.4	2	24.9		
Modification	39		29.9		56.0		47.2		
SUBTOTAL			78.3		123.6		118.9		
EOQ (MYP)									
SUBTOTAL			78.3		123.6		118.9		
TOTAL			78.3		123.6		118.9		
NARRATIVE:									
<p>Joint STARS is baselined on a used Boeing 707-338C series aircraft. Of the twenty-one -338's built, there is one known -338 available and suitable for Joint STARS use. There are approximately two hundred other 707-300 series aircraft being utilized in worldwide commercial aviation. The budget assumes acquisition of used 707-300 series aircraft. The condition of these aircraft vary widely. Use of other than -338 series aircraft will increase Non-Recurring Engineering costs due to wiring configuration differences in suitable candidate aircraft.</p>									

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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE:	
						18-Feb-94	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE				
AIRCRAFT PROCUREMENT/ AF BA04 OTHER AIRCRAFT			SOF A/C COMMON SUPPORT EQUIPMENT				
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY							
COST (In Millions)		18.8					
<b>MISSION AND DESCRIPTION:</b> Funding supports acquisition of Common Support Equipment for USSOCOM							
(P-40)							

EXHIBIT P-40

P-1 Shopping List

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BUDGET ITEM JUSTIFICATION SHEET							DATE
APPROPRIATION/BUDGET ACTIVITY							Feb 94
P-1 ITEM NOMENCLATURE							
Aircraft Procurement, AF (3010)/BA06							
Aircraft Spares & Repair Parts							
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY	0	0	0	0	0	0	0
COST							
(In Millions)	487.9	425.7	488.9	660.8	662.4	801.6	773.0
MISSION & DESCRIPTION							

**Program Definition: Aircraft Replenishment Spares (Budget Program 150000)**

This program finances AFSF exempt investment spares and repair parts needed to provide follow-on spares support for all aircraft and aircraft support equipment. Investment items are distinguished from expendable items in that investment items are subject to depot repair (XD items) and are not not discarded until depot repair is no longer economical. The requirement is based on an item-specific failure/specific failure/demand driven computation that supports the flying hour program lifetime away. The average The average lifetime is three years. Example items include landing gear struts, fire control computers, inertial navigation units, and engine turbine wheels.

The only replenishment spares funds remaining in this central procurement account are for spares items which cannot be managed by the Standard Base Supply System (SBSS) and thus are exempt from the stock fund concept. These exceptions fall into three categories. The first group is munitions coded/managed items such as cartridge actuated or propellant actuated devices (CAD/PAD) items for aircraft ejection systems. The second and third categories are non-stocklisted items which support classified and contractor logistics support (CLS)

**Program Definition: Aircraft Initial Spares (Budget Program: 160000)**

This program finances whole spare engines and modules and repairable investment items including some items being newly introduced to the Air Force inventory. Beginning in FY94, most initial spares will also be procured through the AFSMBA (DBOF). As the funds are expended, the AFSMBA (DBOF) will be reimbursed by this central procurement account as the funds actually outlay. The effect of this change was a shift of funds to the right which may give the appearance of ramping requirements. However, it is important to note that this means that the funds budgeted in FY95 for example largely represent the payments for obligations already incurred by the DBOF but is really a shift in financing strategy. Initial spares are funded in the four program segments described on the attached page.

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BUDGET ITEM JUSTIFICATION SHEET		DATE	
APPROPRIATION/BUDGET ACTIVITY		Feb 94	
		P-1 ITEM NOMENCLATURE	
Aircraft Procurement, AF (3010)/BA06		Aircraft Spares & Repair Parts	
	FY 1993	FY 1994	FY 1995
QUANTITY	0	0	0
COST			
(In Millions)			
MISSION & DESCRIPTION			
Initial Weapon System Spares. (Budget Program 161000)			
This program finances whole spare engines and engine modules, aircraft spares, and peculiar ground support equipment spares required to support initial operations of new aircraft.			
Common Ground Support Equipment (GSE) Spares. (Budget Program 163000)			
This program finances spares required to support new or replacement aircraft common support equipment.			
Aircraft Modification Spares. (Budget Program 164000)			
This program finances new spare parts needed during the initial operation of modified airborne systems.			
Other Production Spares. (Budget Program 169000)			
This program finances spare parts introduced to the inventory for the first time in support of other production charges - BP1900 (e.g. spares for electronic countermeasure pods and special classified systems).			
FY95 PROGRAM JUSTIFICATION:			
The FY95 total aircraft spares request increased slightly due to various weapon systems in modification and support equipment spares.			

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BUDGET ITEM JUSTIFICATION SHEET				DATE						
APPROPRIATION/BUDGET ACTIVITY				Feb 94						
Aircraft Procurement, AF (3010)/BA06				P-1 ITEM NOMENCLATURE						
Aircraft Spares & Repair Parts										
				FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY				0	0	0	0	0	0	0
COST										
(In Millions)										
MISSION & DESCRIPTION										
FUNDING SUMMARY				FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
REPLENISHMENT SPARES				228,514	155,610	174,714	182,100	203,993	210,151	208,697
INITIAL SPARES										
INITIAL WEAPON SYS SPARES				103,512	238,947	200,586	306,346	211,788	339,138	373,944
COMMON GRND SPT EQMT SPARES				16,319	1,578	6,544	13,078	15,200	16,231	14,799
MODIFICATION SPARES				115,138	22,329	93,524	153,697	219,880	224,735	165,000
OTHER PRODUCTION SPARES				24,435	7,213	13,526	5,555	11,538	11,386	10,562
TOTAL INITIAL SPARES				259,404	270,067	314,180	478,677	458,406	591,490	564,305
TOTAL SPARES & REPAIR PARTS				487,918	425,677	488,894	660,777	662,399	801,641	773,002

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PROGRAM COST BREAKDOWN		DATE
B. APPROPRIATION/BUDGET ACTIVITY		FEBRUARY 1994
Aircraft Procurement, AF (3010)/BA06		
Aircraft Spares and Repair Parts		
ELEMENT OF COST	IDENT CODE	
REPLENISHMENT SPARES Budget Program 15	FY93	FY95
	QTY	QTY
INITIAL SPARES Budget Program 16	TOTAL COST	TOTAL COST
TOTAL	228514	174714
	259404	314180
	487918	488894

DD FORM 2446

Exhibit P-22

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P-1 LINE	REPLENISHMENT SPARES FUNDING APPROPRIATION, BUDGET ACTIVITY			DATE FEB 94
	END ITEM NOMENCLATURE	FY 1993	FY 1994	
	CLS SYSTEMS/TRAINERS SPARES			
	B1-B Simulator			
	KC-10A	11440	13101	13726
	TAC Systems/Simulators	192	693	655
	Special Mission Aircraft	18996	15221	15558
	Ops Support Aircraft	2319	2241	2346
	Navigation Trainers	1548	809	797
	NEACP Operations	11933	3054	8763
	F-117	6037	6436	10953
	CSTOL		1032	1081
	TOTAL CLS REPLEN SPARES	52465	42587	53879

DD Forms 2442-1

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INITIAL SPARES FUNDING APPROPRIATION, BUDGET ACTIVITY				DATE FEB 94
P-1 LINE	END ITEM NOMENCLATURE	FY 1993	FY 1994	FY 1995
	F-16	33669	1151	7851
	F-15E	21782	4545	6244
	C-130	11033	1114	15902
	E-8	22234	3479	33257
	C-17		29569	103098
	B-2		185089	2253
	H-60	5684	523	619
	NEW ATC AIRCRAFT		13477	31362
	T-1	7940		
	FLIGHT SCREENING	1170		
	Support Equipment Spares	16319	1578	6544
	Modification Spares	115138	22329	93524
	Other Production Spares	24435	7213	13526
	TOTAL INITIAL SPARES	259404	270067	314180

DD Forms 2442-1

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Exhibit P-18a

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FY95 PRESIDENT'S BUDGET (PB)  
BUDGET ACTIVITY 07  
(BP 12) COMMON SUPPORT EQUIPMENT

FEBRUARY 1994

LINE ITEM 58

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE February 1994
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT				BUDGET PROGRAM 1200 OVERVIEW						
QUANTITY	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999			
COST (In Mil)	\$446.651	\$193.518	\$225.845	\$249.651	\$226.124	\$246.994	\$237.613			

This program provides organizational and intermediate level equipment used in direct support of aircraft requirements for items common to more than one weapon system. It also funds replacement equipment and simulators for out-of-production aircraft.

These replacement requirements ensure continuation of adequate quantities of serviceable equipment over the life of each weapon system. Items being replaced range in age from 10 to 30 years old and have frequent failures, are no longer economical to repair and whose spare parts are no longer available.

Some items purchased with common support equipment funds are avionics test stations, air conditioners, munitions handling equipment, jet engine test stands, electronic test sets, noise suppressors, fuel servicing carts, generators, maintenance platforms and automatic test equipment.

P-1 SHOPP LIST ITEM NO. 58-1		PAGE NO.
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UNCLASSIFIED



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FY 1995 PRESIDENTS BUDGET					February 1994
BP 12 COMMON SUPPORT EQUIPMENT (CSE) (DOLLARS IN MILLIONS)					
	NOUN	NSN	FY95		
			QTY	AMOUNT	
1	Air Conditioner, MA-3	4120-00-998-6673	386	18.655	
2	Air Conditioner, AM32C-5	4120-00-618-3286	308	10.916	
3	Air Conditioner, PD501 Diesel	4120-01-167-5470	17	3.823	
4	F-15 Downsized Tester	4920-01-355-4478DQ	32	41.270	
5	F-16 Improved Avionics Intermediate Shop (AIS)	4920-01-339-9212WF	2	12.000	
6	Avionics Integrated Support Facilities (AISF)			4.750	
7	Compressor, Gas Turbine AM32A-95	2835-01-213-9272YZ	135	17.368	
8	Generator Set, Diesel, 72KW	6115-01-158-7473	240	10.042	
9	Generator Set, Diesel, 225KW	6115-01-306-8342	33	3.824	
10	Self Generating Nitrogen System	3655-01-347-9055	240	12.264	
11	1.5 Ton Liquid Oxygen/Liquid Nitrogen Plant	3655-00-722-3901	5	2.555	
12	Purge Unit	3655-00-429-2896	288	2.880	
13	Aircraft Pressurized Cabin Leakage Tester	4920-00-431-9397	112	2.278	
14	Noise Suppressor, Large Turbo	4920-01-082-1095	2	4.920	
15	B-2 Common Support Equipment			4.036	
16	Interim Contractor Support (ICS)			3.335	
	Subtotal			154.916	
17	Items Less Than \$2M			30.703	
	Subtotal			185.619	
	Simulators			40.226	
	BP 12 Common Support Equipment Total			225.845	

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE February 1994
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Air Conditioner MA-3					
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		NSN: 4120-00-998-6673					
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY	246	60	386	167	0	0	0
COST (in M\$)	\$13.341	\$3.100	\$18.655	\$8.352	\$0.000	\$0.000	\$0.000

A. DESCRIPTION/FUNCTION: The MA-3 is a diesel engine driven, all weather, vapor cycle, trailer mounted, self-contained air conditioner with a nominal cooling capacity of 138,000 BTU/HR (20 tons). It is designed to provide cooling for aircraft electronic equipment during ground check-out and maintenance.

B. PURPOSE OF PROCUREMENT: Item is required to replace air conditioners with critical support problems. The average service life of this item is ten years and those assets being replaced have exceeded replacement cost criteria. The average age of the inventory is 20 years. Support problems include non-availability of spare parts and use of leaded fuel. Procurement of this item is also required for the Government to be in compliance with the Montreal Protocol Treaty on substances that deplete the ozone layer and the Clean Air Act requiring the elimination of R-12 refrigerant.

C. APPLICATION: This item supports multiple large aircraft: B-52, C-5, C-130, C-135, C-141, C-17, KC-135, EC-130, etc.

D. REQUIREMENT: FY95 - 386 Replacements

E. IMPACT: Without this type air conditioner for flight line use, there is high risk of damaging expensive electronic systems due to overheating and creating a health hazard for personnel performing required maintenance functions.

	P-1 SHOPP LIST ITEM NO. 58-3	PAGE NO.
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UNCLASSIFIED

# UNCLASSIFIED

PROGRAM COST BREAKDOWN				DATE February 1984	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Air Conditioner MA-3			
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		NSN: 4120-00-998-6673			
ELEMENT OF COST		(Total cost in thousands of dollars)			
IDENT CODE	FY 1993		FY 1994		FY 1995
	QTY	TOTAL COST	QTY	TOTAL COST	QTY

1. A. AIR CONDITIONER (2 FIRST ARTICLE TEST AND 1 OT&E UNITS)	A	3	1,222	60	386	18,655
B. AIR CONDITIONER	A	243	12,071	48	3,100	
2. TECHNICAL DATA		246	10,341	60	3,100	18,655
TOTAL						

P-1 S&OPP LIST		PAGE NO.		Exhibit P-22	
ITEM NO.		58-4			

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING					A. DATE February 1994					
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE Air Conditioner MA-3 NSN: 4120-00-998-6673							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

FY83*	EAS	C/FFP	AFMCSA-ALC	OCT 92	MAY 94	3	407,333*			
FY83	EAS	OPTION	AFMCSA-ALC	SEP 93	JUN 94	243	49,676**	YES	NO	
FY84	EAS	OPTION	AFMCSA-ALC	FEB 94	MAR 95	60	51,670**	YES	NO	
FY85	EAS	OPTION	AFMCSA-ALC	OCT 94	MAY 95	386	48,328**	YES	NO	
	ENGINEERED AIR SYSTEMS, ST LOUIS, MO									

D. REMARKS *AVERAGE UNIT COST OF TWO FIRST ARTICLE UNITS AND ONE OPERATIONAL, TEST AND EVALUATION (OT&E) UNIT. **OPTION UNIT COSTS IN ACCORDANCE WITH FY83 CONTRACT QUANTITY PRICE BANDS.	
P-1 SHOPP LIST ITEM NO. 58-5	PAGE NO. Exhibit P-22a

# UNCLASSIFIED

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FY98 BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: AIR CONDITIONER, MA-3 4120-00-998-6073		DATE: February 1994					
ITEM/MFG PROCUREMENT YEAR		FISCAL YEAR 94		FISCAL YEAR 95		FISCAL YEAR 96		LAT ER	
S E R V		PROG/ACQ/ST BAL		1-Qtr		1-Qtr		1-Qtr	
QTY		PRIOR DUE		OCT		NOV		DEC	
AF		3		0		3		0	
AF		243		0		243		0	
AF		60		0		60		0	
FY94 (SP10 Initial)		AF		33		0		33	
FY95		AF		366		0		366	
TOTAL		725		0		725		0	
MANUFACTURER'S NAME AND LOCATION		ENGINEERED AIR SYSTEM ST LOUIS, MO		PRODUCTION LEAD TIME		ADMIN LEAD TIME		TOTAL AFTER 1 OCT	
MIN		1		PR 1 OCT		AFT 1 OCT		OCT	
MAX		30"		INITIAL		REORDER		7	
CH 04		30"		7		7		7	
REORDER		7		7		7		7	
P-1 SHOPPING LIST ITEM NO.		P-1 SHOPPING LIST ITEM NO.		P-1 SHOPPING LIST ITEM NO.		P-1 SHOPPING LIST ITEM NO.		P-1 SHOPPING LIST ITEM NO.	
PAGE 1 OF 1 PAGES EXHIBIT P-21		PAGE 1 OF 1 PAGES EXHIBIT P-21		PAGE 1 OF 1 PAGES EXHIBIT P-21		PAGE 1 OF 1 PAGES EXHIBIT P-21		PAGE 1 OF 1 PAGES EXHIBIT P-21	

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UNCLASSIFIED

UNCLASSIFIED

REQUIREMENTS STUDY		DATE: February 1994	
EXHIBIT P-20		P-1 ITEM NOMENCLATURE: NSN: 4120-00-998-6673 AIR CONDITIONER, MA-3	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		MEMO ENTRIES	
ELEMENT OF STUDY		ELEMENTS OF INVENTORY OBJECTIVE	
ASSETS ON HAND AS OF 31 Mar 93	953	A. AIRFORCE	630
DUE-IN W/FY 93 AND PRIOR FUNDS	246	B. ANG	129
DUE-IN W/FY 94 PROGRAM FUNDS	60	C. AFR	74
TOTAL ASSETS	1259	D. WRM	59
LESS DISPOSALS/EXPENDITURES		TOTAL	892
A. DISPOSALS THRU FY 94	184	ACTUAL EXPENDITURE RATES	
B.	0	CY	
C.	0	CY	
D.	0		
TOTAL USAGES	184		
NET ASSETS: END OF FY 94	1075		
LESS DISPOSALS/EXPENDITURES			
A. FY 95 DISPOSALS	360		
B.	0		
C.	0		
D.	0		
TOTAL			
NET ASSETS WITHOUT FY 95 BUY	360		
	715		
INVENTORY OBJECTIVE	892		
REQUIRED FY 95 PROCUREMENT	386		
FY 95 PROCUREMENT PROGRAM QUANTITY			
NET ASSETS: END OF FY 95	386		
REMARKS:	1101		
P-1 SHOPP LIST			
ITEM NO.		58-7	
PAGE NO.			
REMARKS: THIS IS A COMPLETE REPLACEMENT PROGRAM DUE TO DISPOSAL OF UNITS USING R-12 FREON WHICH HAS BEEN BANNED FROM PRODUCTION. REMAINING UNITS WILL BE DISPOSED OF IN FY96 AS FY95 PRODUCTIONS UNITS ARE DELIVERED. UNITS WITH R-12 WILL BE MAINTAINED UNTIL THAT TIME BY REMOVAL, RECYCLE AND REUSE OF THE R-12 IN EACH UNIT.			

UNCLASSIFIED

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE February 1994
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE Air Conditioner AM32C-5 NSN: 4120-00-618-3286			
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998
QUANTITY	246	60	308	0	0	0
COST (in Mil)	\$9.784	\$2.322	\$10.916	\$0.000	\$0.000	\$0.000

A. DESCRIPTION/FUNCTION: The AM32C-5 is an electric motor driven, vapor cycle, trailer mounted air conditioner with a nominal cooling capacity of 138,000 BTU/HR (20 tons). It is designed to provide cooling for electronic equipment during ground check-out and maintenance of avionics systems.

B. PURPOSE OF PROCUREMENT: Item is required to replace items with critical support problems. The average age of the inventory is 25 years. The average service life of this item is 12 years and those assets being replaced have exceeded replacement cost criteria. Support problems include non-availability of components due to obsolescence of electrical components, blower assemblies and components. Procurement of this item is also required for the government to be in compliance with the Montreal Protocol Treaty on substances that deplete the ozone layer and the Clean Air Act requiring the elimination of R-12 refrigerant. Due to the international treaty to limit global production and consumption of chlorofluorocarbons (CFC) and the phasing down on production of CFC, assets using R-12 refrigerant will become unsupportable.

C. APPLICATION: This air conditioner supports the C-135, F-15, F-16 and other aircraft.

D. REQUIREMENT: FY95 - 308 Replacements

E. IMPACT: This air conditioner provides conditioned air to cargo and electronic compartment areas during ground servicing and maintenance in confined areas where toxic fumes emitted by internal combustion engines cannot be tolerated. Without this item, there is a high risk of damaging expensive electronic systems due to overheating. A health hazard also exists for personnel performing required maintenance functions.

P-1 SHOPP LIST ITEM NO. 58-8	PAGE NO.
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UNCLASSIFIED

# UNCLASSIFIED

PROGRAM COST BREAKDOWN										DATE February 1994
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Air Conditioner, A/M32C-5								
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		NSN: 4120-00-618-3286								
ELEMENT OF COST		(Total cost in thousands of dollars)								
IDENT CODE	FY 1993	QTY	TOTAL COST	QTY	FY 1994	TOTAL COST	QTY	FY 1995	TOTAL COST	
1. A. AIR CONDITIONER ( 2 FIRST ARTICLE	A	3	821							
TEST AND 1 OT&E UNITS)	A	243	8,836	60		2,322	308		10,916	
B. AIR CONDITIONER		246	127	60		2,322	308		10,916	
2. TECHNICAL DATA			9,784							
TOTAL										

P-1 SHOPP LIST		PAGE NO.		Exhibit P-22	
ITEM NO. 58-9					

# UNCLASSIFIED



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING										A. DATE February 1994	
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE Air Conditioner, AM32C-5 NSN: 4120-00-618-3286						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY93	EAS	C/FFP	AFMCSA-ALC	OCT 92	MAY 94	3	273,662*				
FY93	EAS	OPTION	AFMCSA-ALC	SEP 93	JUN 94	243	36,361**	YES	NO		
FY94	EAS	OPTION	AFMCSA-ALC	FEB 94	FEB 95	60	38,705**	YES	NO		
FY95	EAS	OPTION	AFMCSA-ALC	OCT 94	APR 95	308	35,441**	YES	NO		
ENGINEERED AIR SYSTEMS, ST LOUIS, MO											

D. REMARKS *FY93 UNIT COST REPRESENTS AVERAGE OF TWO FIRST ARTICLE UNITS AND ONE OPERATIONAL, TEST AND EVALUATION (OT&E) UNIT. **OPTION UNIT COSTS ARE IN ACCORDANCE WITH FY93 CONTRACT QUANTITY PRICE BANDS.	
P-1 SHOPP LIST ITEM NO. 58-10	PAGE NO. Exhibit P-22a

# UNCLASSIFIED



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REQUIREMENTS STUDY EXHIBIT P-20		DATE: February 1994	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE: NSN: 4120-00-618-3286 AIR CONDITIONER, AM32C-5	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 93	651	ELEMENTS OF INVENTORY OBJECTIVE	
DUE-IN W/FY 93 AND PRIOR FUNDS	246	A. AIRFORCE	447
DUE-IN W/FY 94 PROGRAM FUNDS	60	B. ANG	143
TOTAL ASSETS	957	C. AFR	24
		D. WRM	0
		TOTAL	614
LESS DISPOSALS/EXPENDITURES			
A. DISPOSALS THRU FY 94	343		
B.	0		
C.	0		
D.	0		
TOTAL USAGES	343	ACTUAL EXPENDITURE RATES	
NET ASSETS: END OF FY 94	614	CY	
		CY	
LESS DISPOSALS/EXPENDITURES		REMARKS: THIS IS A COMPLETE REPLACEMENT PROGRAM DUE TO DISPOSAL OF UNITS USING R-12 FREON WHICH HAS BEEN BANNED FROM PRODUCTION.	
A. FY 95 DISPOSALS	308		
B.	0		
C.	0		
D.	0		
TOTAL			
NET ASSETS WITHOUT FY 95 BUY	308		
	306		
INVENTORY OBJECTIVE			
	614		
REQUIRED FY 95 PROCUREMENT			
FY 95 PROCUREMENT PROGRAM QUANTITY	308		
NET ASSETS: END OF FY 95	308		
	614		
REMARKS:	P-1 SHOPP LIST ITEM NO. 58-12 PAGE NO.		

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE February 1994	
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE Air Conditioner, PD501, Diesel NSN: 4120-01-167-5470				
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY	36	0	17	0	0	0	0
COST (in M\$)	\$7.984	\$0.000	\$3.823	\$0.000	\$0.000	\$0.000	\$0.000

A. DESCRIPTION/FUNCTION: The PD501 air conditioner is a diesel engine driven, vapor cycle, trailer mounted unit with a normal cooling capacity of 1,200,000 BTU/HR. It provides air via 5 individually controllable outlets at temperatures ranging from 45 to 100 plus degrees Fahrenheit. Flow rates and maximum outlet pressures of 390 pounds per minute (PPM) at 2.0 pounds per square inch gauged (PSIG), 300 PPM/1.5 PSIG, or 220 PPM/3.0 PSIG can be selected. It is designed to operate in temperatures from -40 to +115 degrees (F) and provide cooling/heating for electronic equipment during ground check-out and maintenance checks of avionics systems on the B-1B and MC-130H aircraft.

B. PURPOSE OF PROCUREMENT: Currently, support for the B-1B aircraft is being provided by up to five MA-3D air conditioners, one ACE\* air conditioner and sometimes by only one MA-3D conditioner. The MC-130H is being supported with several MA-3Ds. This item is needed to ensure failure of vital electronic components does not occur due to overheating during ground checkout and maintenance.

C. APPLICATION: This air conditioner supports the B-1B and MC-130H aircraft.

D. REQUIREMENTS: FY95: 17 Shortages

E. IMPACT: Not procuring this item will result in inadequate cooling/heating support for the B-1B and MC-130H aircraft. Failure of vital electronic components due to inadequate cooling/heating will seriously impair the mission capability of both the B-1B and MC-130H aircraft.

F. TYPE ITEM: A

\*Accessories Control and Equipment (ACE) Company

P-1 SHOPP LIST ITEM NO.		PAGE NO.
58-13		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING										A. DATE February 1994	
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE Air Conditioner, PD501, Diesel NSN: 4120-01-167-5470						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY93	EAS	OPTION*	AFMCSA-ALC	SEP 93	JUN 94	36	221,782				
FY95	EAS	OPTION	AFMCSA-ALC	DEC 94	MAR 96	17	224,886	YES	NO		
	ENGINEERED AIR SYSTEMS, ST LOUIS, MO										

D. REMARKS * OPTION TO A FY90 CJFFP CONTRACT.		
P-1 SHOPP LIST ITEM NO. 58-14	PAGE NO.	Exhibit P-22a

# UNCLASSIFIED



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REQUIREMENTS STUDY EXHIBIT P-20		DATE: February 1994	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE: NSN:4120-01-167-5470 AIR CONDITIONER, PD501	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 93	12	ELEMENTS OF INVENTORY OBJECTIVE	
DUE-IN W/FY 93 AND PRIOR FUNDS	36	A. AIRFORCE	55
DUE-IN W/FY 94 PROGRAM FUNDS	0	B. ANG	0
TOTAL ASSETS	48	C. AFR	0
		D. WRM	0
		TOTAL	55
LESS DISPOSALS/EXPENDITURES			
A. DISPOSALS THRU FY 94	10		
B.	0		
C.	0		
D.	0		
TOTAL USAGES	10	ACTUAL EXPENDITURE RATES	
NET ASSETS: END OF FY 94	38	CY	
		CY	
LESS DISPOSALS/EXPENDITURES		REMARKS	
A. FY 95 DISPOSALS	0		
B.	0		
C.	0		
D.	0		
TOTAL			
NET ASSETS WITHOUT FY 95 BUY	0		
	38		
INVENTORY OBJECTIVE			
	55		
REQUIRED FY 95 PROCUREMENT	17		
FY 95 PROCUREMENT PROGRAM QUANTITY			
NET ASSETS: END OF FY 95	17		
	55		
REMARKS:	P-1 SHOPP LIST ITEM NO. 58-16 PAGE NO.		

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE February 1994
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE F-15 Downsize Tester NSN: 4920-01-355-4478DQ				
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998
QUANTITY	7	0	32	5	12	0
COST (in Mil)	\$36.871	\$3.482	\$41.270	\$9.076	\$18.311	\$0.000
						\$0.000

A. DESCRIPTION/FUNCTION: The F-15 Downsize Tester will be highly mobile and will be comprised mainly of electronic components such as a computer controlled memory unit, a signal generator converter, converter interface, air supply cooler, printer, pneumatic generator and controlled assembly, television monitor, rate turn table, cables, air cylinder and nitrogen. This tester will perform parametric testing for troubleshooting and repair of F-15 line replaceable units (LRU). It will also provide ambient air cooling to the unit under test and will examine and provide discrete evaluation of the overall performance of the systems and subsystems for the antenna, fire control, flight control and telemetering systems. Test program sets (TPS) which consist of software, interface test adapters, documentation and cables are required as an interface between the tester and the aircraft's LRUs. The downsized tester will have increased reliability and maintainability and will reduce test times.

B. PURPOSE OF PROCUREMENT: The existing F-15 Avionics Intermediate Shop (AIS) developed in the early 1970s contains many electronic components which are no longer available. Procurement of the downsized tester will eliminate a major cause of downtime thereby increasing aircraft readiness. Also, the F-15 operational capability will be enhanced because of the tester's ease in deployment. This tester is a stand-alone system requiring one pallet to deploy in lieu of 22 pallets required by the AIS. It only takes 90 minutes to depalletize, set-up and begin testing of the line replaceable units (LRUs) versus 30 hours for the AIS. No forklift or special equipment is required to set up the downsized tester. The average age of the existing testers is 20 years. Airlift dollars and overall logistics costs will be reduced.

C. APPLICATION: F-15 Aircraft

D. IMPACT: The cost of maintaining the aging AIS test stations is approximately \$26 million annually. The most critical aspect of attempting to maintain the AIS is the impact on the maintainability of the aircraft. The F-15 would eventually be unable to sustain sortie operations due to the backlog of aircraft system malfunctions requiring testing and repair. The older test stations are becoming unable to accommodate the workload and are subject to malfunctioning which, in turn, increases the number of grounded aircraft. Also, ACC's requirement for a truly mobile tester cannot be met by modifying the AIS which is now technologically outdated. This downsized tester will significantly reduce supportability requirements.

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# UNCLASSIFIED



# UNCLASSIFIED

PROGRAM COST BREAKDOWN										DATE February 1994					
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE F-15 Downsize Tester											
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT				NSN: 4920-01-355-4478DQ											
ELEMENT OF COST				IDENT CODE		(Total cost in thousands of dollars)									
						FY 1993		FY 1994		FY 1995					
				QTY		TOTAL COST		QTY		TOTAL COST		QTY		TOTAL COST	

1. TESTER	A	7	5,649	7	32	22,368
2. TEST PROGRAM SETS			18,406		49	18,902
3. TECHNICAL DATA			2,707			
4. SYSTEM ENGINEERING			10,109			
TOTAL		7	36,871		32	41,270

P-1 SHOPP LIST		PAGE NO.		Exhibit P-22	
ITEM NO.		58-18			

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING							A. DATE February 1994			
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE F-15 Downsized Tester NSN: 4920-01-355-4478DQ						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY82	GRUMMAN	CPII/FPI	AFMCSA-ALC	OCT 83	JUN 94	5	1,123,000	YES	NO	
FY83	GRUMMAN	OPTION	AFMCSA-ALC	FEB 94	JUL 95	7	807,000	YES	NO	
FY94 (TPSs ONLY)	GRUMMAN	OPTION	AFMCSA-ALC	JUL 94	JAN 96	7	467,400	YES	NO	
FY95	GRUMMAN	OPTION	AFMCSA-ALC	NOV 94	NOV 95	32	699,000	YES	NO	
	GRUMMAN AEROSPACE CORP BETHPAGE, NY									

D. REMARKS	
P-1 SHOPP LIST ITEM NO. 58-19	PAGE NO. Exhibit P-22a

# UNCLASSIFIED

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UNCLASSIFIED

REQUIREMENTS STUDY EXHIBIT P-20		DATE: February 1994	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE: NSN: 4920-01-385-447800 F-15 DOWNIZED TESTER (F-15 DST)	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 83	0	ELEMENTS OF INVENTORY OBJECTIVE	
DUE IN W/FY 93 AND PRIOR FUNDS	12	A. AIRFORCE	53
DUE IN W/FY 94 PROGRAM FUNDS		B. ANG	8
TOTAL ASSETS	12	C. AFR	0
		D. WRM	0
		TOTAL	61
LESS DISPOSALS/EXPENDITURES			
A. DISPOSALS THRU FY 94	0	ACTUAL EXPENDITURE RATES	
B.	0	CY	
C.	0	CY	
D.	0	REMARKS	
TOTAL USAGES	0		
NET ASSETS: END OF FY 94	12		
LESS DISPOSALS/EXPENDITURES			
A. FY 95 DISPOSALS	0		
B.	0		
C.	0		
D.	0		
TOTAL			
NET ASSETS WITHOUT FY 95 BUY	0		
	12		
INVENTORY OBJECTIVE			
REQUIRED FY 95 PROCUREMENT	61		
FY 95 PROCUREMENT PROGRAM QUANTITY	49		
NET ASSETS: END OF FY 95	32		
	44		
REMARKS: DIFFERENCE BETWEEN FY95 REQUIRED PROCUREMENT AND PROGRAM QUANTITY IS DUE TO FUNDING CONSTRAINTS.	P-1 SHOPP LIST ITEM NO. 58-21 PAGE NO.		

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE February 1994
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE F-16 Improved Avionics Intermediate Shop (IAIS) NSN: 4920-01-339-8212WF					
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY	0	2	2	8	8	0	0
COST (in Mil)	\$0.000	\$12.000	\$12.000	\$48.000	\$48.000	\$0.000	\$0.000

- A. DESCRIPTION/FUNCTION: The Improved Avionics Intermediate Shop (IAIS) is a controlled test station that provides performance and diagnostic testing of F-16 avionics line replaceable units (LRUs). The IAIS is mobile (fits on one pallet and is two man portable), does not require controlled environment (hangar/ tent) and operates on four different power sources. It consists of an interface unit, control and display unit, instrument units, microwave stimulus unit, microwave measurement unit, power control unit, storage units, blower unit, refrigeration unit, frequency changer unit and optical test bench.
- B. PURPOSE OF PROCUREMENT: The IAIS will replace the F-16 full size avionics intermediate shop (AIS) test stations which are 15 years old and are becoming obsolete and unsupportable due to outdated technology and disappearing vendors.
- C. APPLICATION: This IAIS supports the F-16 aircraft.
- D. REQUIREMENTS: FY95 - 2 Replacements
- E. IMPACT: The cost of maintaining the aging AIS test stations has become uneconomical. Maintainability of the F-16 aircraft is becoming increasingly difficult using obsolete and outdated support equipment. These aircraft will eventually be unable to participate fully in sorties on a sustainable basis due to the backlog of aircraft system malfunctions requiring testing and repair. The older test stations are becoming unable to accommodate the required testing and are subject to malfunctioning which in turn increases the number of grounded aircraft. This mobile tester will significantly reduce supportability requirements.
- F. TYPE ITEM: A

P-1 SHOPP LIST ITEM NO. 58-22		PAGE NO.
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING							A. DATE February 1994			
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE F-16 Improved Avionics Intermediate Shop NSN: 4920-01-339-9212WF						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY94	GENERAL DYNAMICS	SS/FP	AFMC/OO-ALC	MAY 94	OCT 95	2	6,000,000	YES	NO	
FY95	GENERAL DYNAMICS	OPTION	AFMC/OO-ALC	OCT 94	MAR 96	2	6,000,000	YES	NO	
	GENERAL DYNAMICS SAN DIEGO, CA									

D. REMARKS	
P-1 SHOPP LIST ITEM NO. 58-23	PAGE NO. Exhibit P-22a

# UNCLASSIFIED

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FY98 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE: F-16 IMPROVED AVIONICS INTERMEDIATE SHOP*										DATE: February 1994										FISCAL YEAR 94										FISCAL YEAR 95										FISCAL YEAR 96										LAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
ITEM/MFG PROCUREMENT YEAR										S E R V										PROJ/ACPT BAL										QTY										PRIOR										DUE										1-Oct										2										3										4										5										6										7										8										9										10										11										12										13										14										15										16										17										18										19										20										21										22										23										24										25										26										27										28										29										30										31										32										33										34										35										36										37										38										39										40										41										42										43										44										45										46										47										48										49										50										51										52										53										54										55										56										57										58										59										60										61										62										63										64										65										66										67										68										69										70										71										72										73										74										75										76										77										78										79										80										81										82										83										84										85										86										87										88										89										90										91										92										93										94										95										96										97										98										99										100										101										102										103										104										105										106										107										108										109										110										111										112										113										114										115										116										117										118										119										120										121										122										123										124										125										126										127										128										129										130										131										132										133										134										135										136										137										138										139										140										141										142										143										144										145										146										147										148										149										150										151										152										153										154										155										156										157										158										159										160										161										162										163										164										165										166										167										168										169										170										171										172										173										174										175										176										177										178										179										180										181										182										183										184										185										186										187										188										189										190										191										192										193										194										195										196										197										198										199										200										201										202										203										204										205										206										207										208										209										210										211										212										213										214										215										216										217										218										219										220										221										222										223										224										225										226										227										228										229										230										231										232										233										234										235										236										237										238										239										240										241										242										243										244										245										246										247										248										249										250										251										252										253										254										255										256										257										258										259										260										261										262										263										264										265										266										267										268										269										270										271										272										273										274										275										276										277										278										279										280										281										282										283										284										285										286										287										288										289										290										291										292										293										294										295										296										297										298										299										300										301										302										303										304									

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REQUIREMENTS STUDY		DATE: February 1984	
EXHIBIT P-20		P-1 ITEM NOMENCLATURE: NSN:4920-01-339-212WF F-16 IMPROVED AVIONICS INTERMEDIATE SHOP	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 93	0	ELEMENTS OF INVENTORY OBJECTIVE	
DUE-IN W/FY 93 AND PRIOR FUNDS	0	A. AIRFORCE	12
DUE-IN W/FY 94 PROGRAM FUNDS	2	B. ANG	8
TOTAL ASSETS		C. AFR	0
		D. WRM	0
		TOTAL	20
LESS DISPOSALS/EXPENDITURES		ACTUAL EXPENDITURE RATES	
A. DISPOSALS THRU FY 94	0	CY	
B.	0	CY	
C.	0	REMARKS	
D.	0		
TOTAL USAGES	0		
NET ASSETS: END OF FY 94	2		
LESS DISPOSALS/EXPENDITURES			
A. FY 95 DISPOSALS	0		
B.	0		
C.	0		
D.	0		
TOTAL			
NET ASSETS WITHOUT FY 95 BUY	0		
	2		
INVENTORY OBJECTIVE	20		
REQUIRED FY 95 PROCUREMENT	18		
FY 95 PROCUREMENT PROGRAM QUANTITY			
NET ASSETS: END OF FY 95	2		
REMARKS:		P-1 SHOPP LIST	
		ITEM NO. 58-25	
		PAGE NO.	

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE February 1994
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Avionics Integrated Support Facilities (AISF)					
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT							
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY							
COST (In Mil)	\$14.926	\$14.510	\$4.750	\$	\$	\$	\$

A. DESCRIPTION/FUNCTION: The Avionics Integrated Support Facilities (AISFs), located at each Air Logistics Center, provide a laboratory environment to simulate flight conditions for mission essential changes to software for weapon system on-board computers/subsystems. This capability enables the weapon system's System Support Manager (SSM) to support operational flight programs (OFP) organically. The facilities provide all the necessary instrumentation to collect and record engineering data during test flights and all the ground equipment necessary to perform data analysis of the collected data. Funding requirements for these facilities are continuous in order to modernize and technologically update the equipment as changes to aircraft weapon systems occur.

B. PURPOSE OF PROCUREMENT: The purpose of these procurements is to replace facility equipment which is no longer maintainable.

C. APPLICATION: These AISFs support multiple weapon systems including the F-16, F-15 and E-3.

D. IMPACT: Since the AISFs provide vital resources needed to develop and test weapon system software modifications, these resources are mission essential. The Mission Critical Computer Resource (MCCR) software programs that control navigation and weapons delivery systems are designated as operational flight programs. Changes to these OFPs are developed and tested in these facilities. The AISFs provide OFP engineers with software development tools and test stands that simulate inflight environment for extensive testing of OFPs. Mission effectiveness of weapon systems depends on the accuracy and quality of its OFPs. If AISF equipment is not available to support OFP development and to test the OFPs, the aircraft weapon systems navigation and weapons delivery capabilities will be degraded thus adversely impacting the weapon system's mission effectiveness and flight safety.

E. Requirements consist of multiple items none of which the procurement value exceeds \$2 million. A breakout by Air Logistics Center for FY95 follows:  
SM-ALC (\$3.0M) and OO-ALC (\$1.750M).

P-1 SHOPP LIST ITEM NO. 58-26		PAGE NO.

# UNCLASSIFIED

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE February 1994
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		Compressor, Gas Turbine AM32A-95				
		NSN: 2835-01-213-9272YZ				
QUANTITY	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998
	0	2	135	208	156	0
COST (In Mil)	\$0.000	\$0.045	\$17.368	\$27.349	\$20.951	\$0.000
						\$0.000

A. DESCRIPTION/FUNCTION: The AM32A-95 Gas Turbine Compressor also known as the Large Aircraft Start System (LASS), is a towable, four-wheeled chassis mounted trailer. It consists of an enclosure assembly which houses a turbine engine, fuel, electrical, and lubrication system, and an air delivery system. The LASS is used to furnish pneumatic pressure/power for ground support of aircraft systems. Its primary mission is to start engines for a variety of aircraft. This is accomplished via a delivery hose which connects to the aircraft's engine(s) and provides compressed air for starting and performing other functions that require large volumes of compressed air. The LASS is 116"X 62"X 68" and weighs 3000 pounds.

B. PURPOSE OF PROCUREMENT: The MA-1A Air Start Carts currently in use in the inventory were designed in the 1955-1957 time frame and provided adequate output to support engines in use at that time. During the intervening years, the size and air requirements of aircraft engines and accessories have increased without a corresponding growth in starting unit capacity/capability. The MA-1A only provides 90 pounds of air at 45 pounds per square inch actual (PSIA) as compared to the LASS's 150 pounds at 48 PSIA. The LASS will use a GTC85-180 series 6 Garrett engine versus the MA-1A's GTC85-70A engine. New technology via control of fuel flow on demand will provide a cost savings in terms of fuel use efficiency. Unlike the MA-1A which ran at 100 percent from start, the LASS will start and run at 40 percent and respond/operate at 100 percent when the bleed air valve is opened.

C. APPLICATION: This unit supports all aircraft having air start capability, including the B-52, C-5, C-17, C-130, C-135, C-141, E-3, E-4 and T-38.

D. REQUIREMENTS: FY95: 135 shortages

E. IMPACT: The currently used MA-1A does not provide an adequate output of air which is required for the start of the newer generation of aircraft engines. In addition, the increasing age and shortage of parts to repair the MA-1A further necessitates the procurement of the LASS as a replacement. Failure to fund the LASS would result in the loss of large aircraft engine start capability.

P-1 SHOPP LIST		PAGE NO.
ITEM NO. 58-27		

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PROGRAM COST BREAKDOWN										DATE February 1994
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE Compressor, Gas Turbine A/M32A-95							
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT			NSN: 2835-01-213-9272YZ							
ELEMENT OF COST			(Total cost in thousands of dollars)							
			FY 1993		FY 1994		FY 1995			
IDENT CODE			QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
1. A. COMPRESSOR, GAS TURBINE (2 FIRST ARTICLE/OT&E TEST UNITS).					0	0	2	43		
B. COMPRESSOR, GAS TURBINE					0	0	0	0	135	17,368
2. TECHNICAL DATA					0	0	2	45	135	17,368
TOTAL										

P-1 SHOPP LIST		PAGE NO.		Exhibit P-22	
ITEM NO.		58-28			

# UNCLASSIFIED

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BUDGET PROCUREMENT HISTORY PLANNING							A. DATE February 1994			
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE Compressor, Gas Turbine A/M32A-95 NSN: 2835-01-213-9272YZ						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY87	LIBBY	OPTION 3RD	HQ AFSC/ASD	JUN 87	JAN 89	289	79,424			
FY84	UNKNOWN	CFFP	AFMC/SA-ALC	JUN 94	JUL 95	2	21,957	YES		NO
FY86	UNKNOWN	OPTION	AFMC/SA-ALC	JUL 95	JAN 97	135	128,649**	YES		NO

## D. REMARKS

\*UNIT COST FOR FY84 CONTRACT IS BASED ON CART PORTION ONLY OF GAS TURBINE COMPRESSOR AS WELL AS ENGINEER'S ESTIMATE OF FIRST ARTICLE TESTING AND TECHNICAL DATA COSTS. ENGINES FOR THESE UNITS WILL BE FURNISHED GFM BY SA-ALC FOR FIRST ARTICLE AND OT&E TESTING ONLY.

\*\*UNIT COST FOR FY86 IS BASED ON THE FOLLOWING: CART PORTION - \$18,649 (LAST CONTRACT PRICE INFLATED BY FY85 INDICES) AND ENGINE COST - \$110,000 (BASED ON CONTRACTOR'S ESTIMATE IN FY85 DOLLARS).

P-1 SHOPP LIST  
ITEM NO. 58-29

PAGE NO.

Exhibit P-22a

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FY98 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE: COMPRESSOR, GAS TURBINE AM32A-95												DATE: February 1994																													
ITEM/MFG PROCUREMENT YEAR		S E R V	PROG	ACPT	BAL	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												LAT ER									
			QTY	PRIOR	DUE	1-Oct	1-Oct	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP								
FY95		AF	135	0	135								9	20	20	20	20	20	6																																
FY95 (BP10 Initial)		AF	11	0	11								11																																						
FY95		FMS	34	0	34													14	20																																
TOTAL			180	0	180			0	0	0	20	20	20	20	20	20	20	20	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
MANUFACTURER'S NAME AND LOCATION		PROD RATES		REA.		MIN		MAX		CH 0+		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1		OCT		OCT		OCT		OCT		OCT		OCT		OCT		OCT		OCT		OCT		OCT		OCT		OCT		OCT		OCT					
UNKNOWN		1		20		INITIAL		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER		REORDER					

PAGE 2 OF 2 PAGES  
 EXHIBIT P-21

UNCLASSIFIED

REQUIREMENTS STUDY		DATE: February 1994	
EXHIBIT P-20		P-1 ITEM NOMENCLATURE: NSN: 2835-01-213-9272YZ COMPRESSOR, GAS TURBINE A/M32A-95	
ELEMENT OF STUDY		MEMO ENTRIES	
APPROPRIATION / BUDGET ACTIVITY	1408	ELEMENTS OF INVENTORY OBJECTIVE	1203
AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT	0	A. AIRFORCE	324
ASSETS ON HAND AS OF 31 Mar 93	2	B. ANQ	82
DUE-IN W/FY 93 AND PRIOR FUNDS		C. AFR	158
DUE-IN W/FY 94 PROGRAM FUNDS	1410	D. WRM	1767
TOTAL ASSETS		TOTAL	
LESS DISPOSALS/EXPENDITURES		ACTUAL EXPENDITURE RATES	
A. DISPOSALS THRU FY 94	201	CY	
B.	0	CY	
C.	0		
D.	0		
TOTAL USAGES	201	REMARKS	
NET ASSETS: END OF FY 94	1209		
LESS DISPOSALS/EXPENDITURES			
A. FY 95 DISPOSALS	0		
B.	0		
C.	0		
D.	0		
TOTAL	0		
NET ASSETS WITHOUT FY 95 BUY	1209		
INVENTORY OBJECTIVE	1767		
REQUIRED FY 95 PROCUREMENT	489		
FY 95 PROCUREMENT PROGRAM QUANTITY			
NET ASSETS: END OF FY 95	135		
	1344		
REMARKS: SHORTFALL BETWEEN REQUIRED FY95 PROCUREMENT AND NET ASSETS IS DUE TO PRODUCIBILITY LIMITATIONS.	P-1 SHOPP LIST ITEM NO. 58-32 PAGE NO.		

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE February 1994
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE Generator Set, Diesel, 72KW, A/M32A-86F NSN: 6115-01-158-7473					
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	
QUANTITY	100	0	240	183	0	0	0	
COST (In Mil)	\$4.000	\$0.000	\$10.042	\$7.657	\$0.000	\$0.000	\$0.000	

- A. DESCRIPTION/FUNCTION: The 72 kilowatts (KW) 400 hertz (HZ) Diesel Generator Set (A/M32A-86F) is powered by a diesel engine and is a portable, four wheel trailer mounted, mobile unit. The engine, generator and controls are designed into a compact unit which is easily removable from the trailer. A superstructure attached to the mainframe provides mounting facilities for the canopy, control box, and electrical equipment and controls. The function of the generator set is to provide regulated, 115/200 and 230/400 volts alternating current (VAC), 400 cycles per second (400 Hz), three phase, 72 KW of power to an aircraft for ground maintenance operation of the aircraft's electrical equipment and other on-board systems.
- B. PURPOSE OF PROCUREMENT: The 72KW generator set will satisfy current weapon systems requirement shortages and replace existing generator sets that have become uneconomical to repair.
- C. APPLICATION: This item supports multiple aircraft including the C-5, C-17, C-130, C-135E, KC-135, C-141, A/OA-10, AC/EC/MC-130A/E/H/U aircraft along with the E-3, E-4, E-8, MH-53J and MH-60G.
- D. REQUIREMENTS: FY95 - 240 Shortages
- E. IMPACT: All aircraft ground maintenance operations along with other aircraft maintenance areas would be adversely impacted without adequate and sufficient numbers of A/M32A-86F Generator Sets.
- F. TYPE ITEM: A

P-1 SHOPPING LIST ITEM NO.	PAGE NO.
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# UNCLASSIFIED



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BUDGET PROCUREMENT HISTORY PLANNING							A. DATE February 1994			
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE Generator Set, Diesel, 72KW, A/M32A-86F NSN: 6115-01-158-7473						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY90*	HOLLINGSWORTH	SS/FFP OPTION	AFLC/SM-ALC	JULY 90	JAN 91	313	31,988			
FY93	UNKNOWN	C/FFP	AFMCSM-ALC	AUG 94	FEB 95**	100	40,000	YES	NO	
FY96	UNKNOWN HOLLINGSWORTH INCORPORATED PHOENIXVILLE, PA	OPTION 1	AFMCSM-ALC	JUN 95	DEC 95	240	41,840	YES	NO	

D. REMARKS *FY90 PROCUREMENT FUNDED BY FMS. FY93-95 UNIT COST BASED ON ENGINEERING ESTIMATE. **FIRST ARTICLE TEST SCHEDULED FOR FEB 96 WITH FIRST ARTICLE ACCEPTANCE JUN 96.		
P-1 SHOPP LIST ITEM NO. 58-34	PAGE NO.	Exhibit P-22a

# UNCLASSIFIED



UNCLASSIFIED

REQUIREMENTS STUDY		DATE: February 1994	
EXHIBIT P-20			
APPROPRIATION / BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE: NSN: 6115-01-158-7473	
AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		GENERATOR SET, DIESEL, 72KW A/M32A-86F	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 93	4085	ELEMENTS OF INVENTORY OBJECTIVE	
DUE-IN W/FY 93 AND PRIOR FUNDS	100	A. AIRFORCE	3096
DUE-IN W/FY 94 PROGRAM FUNDS	0	B. ANG	670
TOTAL ASSETS	4185	C. AFR	249
		D. WRM	573
		TOTAL	4588
LESS DISPOSALS/EXPENDITURES		ACTUAL EXPENDITURE RATES	
A. DISPOSALS THRU FY 94	0	CY	
B.	0	CY	
C.	0	REMARKS	
D.	0		
TOTAL USAGES	0		
NET ASSETS: END OF FY 94	4185		
LESS DISPOSALS/EXPENDITURES			
A. FY 96 DISPOSALS	0		
B.	0		
C.	0		
D.	0		
TOTAL	0		
NET ASSETS WITHOUT FY 96 BUY	4185		
INVENTORY OBJECTIVE			
REQUIRED FY 96 PROCUREMENT	4588		
FY 96 PROCUREMENT PROGRAM QUANTITY	403		
NET ASSETS: END OF FY 96	240		
REMARKS:	4425		
P-1 SHOPP LIST			
ITEM NO. 58-36			
PAGE NO.			

UNCLASSIFIED

# UNCLASSIFIED

## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

DATE February 1994

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Generator Set, Diesel, 225KW NSN: 6115-01-306-8342									
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT											
QUANTITY		FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999			
		8	0	33	0	0	0	0			
COST (in \$M)		\$1.460	\$0.000	\$3.824	\$0.000	\$0.000	\$0.000	\$0.000			

A. DESCRIPTION/FUNCTION: This generator set will be a diesel engine powered, portable, four wheel trailer mounted, towable unit. The function of the generator set is to provide regulated, 120/208 volts alternating current (VAC, 400 cycles per second (400 Hz), three phase, 225 Kilowatts (KW) of power, with a 0.8 lagging power factor, to an aircraft for ground maintenance operation of the aircraft's electrical equipment and other on-board systems.

B. PURPOSE OF PROCUREMENT: This item is being procured to satisfy an urgent need for reliable generators to support unique aircraft electrical power requirements and to replace existing generator sets that are unreliable, difficult to maintain and have become uneconomical to repair. The procurement of a single 225 KW generator set to satisfy the needs of multiple aircraft weapon systems will increase standardization, reduce proliferation and increase combat capabilities.

C. APPLICATION: This generator set will be used to support the following aircraft: E-3 Airborne Warning and Control System (AWACS), E-8 Joint Surveillance Target Attack Radar System (JSTARS) and EC-18 Advanced Range Instrumentation Aircraft (ARIA).

D. REQUIREMENTS: FY95 - 33 Replacements

E. IMPACT: Aircraft ground maintenance operations will be adversely impacted without a sufficient amount of 225KW generator sets. An urgent need exists to replace the MEP116 Generator Sets currently used to support the E-3 AWACS aircraft. The AWACS aircraft is currently experiencing extreme difficulty in providing constant connectivity with vital command center linking while on hot ground alert. Paralleling procedures on the MEP116 generator set take several hours to set-up and are not dependable. The successful deployment/employment of the AWACS weapon system is compromised by the erratic and unreliable support provided by the MEP116 generator. A critical need also exists for a single generator to support the EC-18 ARIA aircraft. Currently, aircraft engine runs are required to perform ground maintenance and operational functions on the ARIA. These engine runs are performed to operate air packs during ground maintenance and operational checks on the aircraft because there are no ground power generators available to support this aircraft's unique power requirements.

P-1 SHOPP LIST ITEM NO.	PAGE NO.
58-37	

# UNCLASSIFIED

UNCLASSIFIED

PROGRAM COST BREAKDOWN				DATE February 1984			
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Generatc. Set, Diesel, 225KW					
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		NSN: 6115-01-306-8342					
ELEMENT OF COST		(Total cost in thousands of dollars)					
IDENT CODE		FY 1993		FY 1994		FY 1995	
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST

1. GENERATOR SET	A	8	1,327	0	0	33	2,824
2. TECHNICIAN DATA			133				250
3. WARRANTY		8	1,460	0	0	33	750
TOTAL							3,824

P-1 SHOPP LIST		PAGE NO.		EXHIBIT P-22	
ITEM NO. 58-38					

UNCLASSIFIED

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BUDGET PROCUREMENT HISTORY PLANNING							A. DATE February 1994			
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE Generator Set, Diesel, 225KW NSN: 6115-01-306-8342						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY83 FY85	TRILECTRON IND TRILECTRON IND  TRILECTRON INDUSTRIES PALMETTO, FL	C/FFP* OPTION	AFMCSM-ALC AFMCSM-ALC	DEC 93 MAY 95	MAY 95 JUN 95	8 33	165,881 85,588	YES	NO	

D. REMARKS FY83 UNIT COSTS ARE FOR FIRST ARTICLE UNITS. *BASIC REQUIREMENTS CONTRACT WITH 5 YEAR OPTIONS.		
P-1 SHOPP LIST ITEM NO. 58-39		PAGE NO. Exhibit P-22a

UNCLASSIFIED



UNCLASSIFIED

REQUIREMENTS STUDY EXHIBIT P-20		DATE: February 1984	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE: NSN: 6115-01-306-8342 GENERATOR SET, DIESEL, 225KW	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 93	0	ELEMENTS OF INVENTORY OBJECTIVE	
DUE-IN W/FY 93 AND PRIOR FUNDS	8	A. AIRFORCE	41
DUE-IN W/FY 94 PROGRAM FUNDS	0	B. ANG	0
TOTAL ASSETS	8	C. AFR	0
		D. WRM	0
		TOTAL	41
LESS DISPOSALS/E. PENDITURES			
A. DISPOSALS THRU FY 94	0	ACTUAL EXPENDITURE RATES	
B.	0	CY	
C.	0	CY	
D.	0		
TOTAL USAGES	0	REMARKS	
NET ASSETS: END OF FY 94	8		
LESS DISPOSALS/EXPENDITURES			
A. FY 95 DISPOSALS	0		
B.	0		
C.	0		
D.	0		
TOTAL	0		
NET ASSETS WITHOUT FY 95 BUY	8		
INVENTORY OBJECTIVE	41		
REQUIRED FY 95 PROCUREMENT	33		
FY 95 PROCUREMENT PROGRAM QUANTITY			
NET ASSETS: END OF FY 95	33		
	41		
REMARKS:	P-1 SHOPP LIST ITEM NO. 58-41 PAGE NO.		

UNCLASSIFIED



BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE February 1994					
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Self-Generating Nitrogen System (SGNS) NSN: 3655-01-347-9055					
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT							
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY	0	30	240	240	240	240	187
COST (in Mil)	\$0.000	\$1.500	\$12.264	\$12.540	\$12.804	\$13.092	\$10.425

**F. TYPE ITEM: A**

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING

B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT										C. P-1 ITEM NOMENCLATURE Self Generating Nitrogen System (SGNS) NSN: 3655-01-347-9055				A. DATE February 1994	
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES, WHEN AVAIL					
FY84 FY85	UNKNOWN UNKNOWN	C/FP OPTION	AFMCSA-ALC AFMCSA-ALC	JUL 94 OCT 94	DEC 94 MAR 95	30 240	50,000 51,100	YES YES	NO NO						

D. REMARKS FY84 UNIT COST ESTIMATE BASED ON SIMILAR ITEM. FY85 UNIT COST BASED ON FY84 ESTIMATE INFLATED BY APPROPRIATE INDICES.			P-1 SHOPP LIST ITEM NO. 58-43		PAGE NO.		Exhibit P-22a	
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# UNCLASSIFIED

UNCLASSIFIED

FY86 BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: SELF GENERATING NITROGEN SYSTEM *		DATE: February 1984					
ITEM/FG PROCUREMENT YEAR		FISCAL YEAR 84		FISCAL YEAR 85		FISCAL YEAR 86		FISCAL YEAR 87	
S E R V		PROG QTY 1 OCT		PROG QTY 1 OCT		PROG QTY 1 OCT		PROG QTY 1 OCT	
AF 30 0 30		AF 240 0 240		AF 36 0 36		FMS 60 0 60		FMS 84 0 84	
FY84		AF 30 0 30		AF 240 0 240		AF 36 0 36		FMS 60 0 60	
FY85		AF 240 0 240		AF 36 0 36		FMS 60 0 60		FMS 84 0 84	
FY85 (PB10 Initial)		AF 36 0 36		FMS 60 0 60		FMS 84 0 84		FMS 84 0 84	
FY84		AF 30 0 30		AF 240 0 240		AF 36 0 36		FMS 60 0 60	
FY85		AF 240 0 240		AF 36 0 36		FMS 60 0 60		FMS 84 0 84	
TOTAL		450 0 450		450 0 450		450 0 450		450 0 450	
MANUFACTURER'S NAME AND LOCATION		UNKNOWN		UNKNOWN		UNKNOWN		UNKNOWN	
PROD RATES		MIN 1 MAX 30		MIN 1 MAX 30		MIN 1 MAX 30		MIN 1 MAX 30	
ADMIN LEAD TIME		PR 1 OCT 1		PR 1 OCT 1		PR 1 OCT 1		PR 1 OCT 1	
MANUFACTURING TIME		TOTAL AFTER 1 OCT 6		TOTAL AFTER 1 OCT 6		TOTAL AFTER 1 OCT 6		TOTAL AFTER 1 OCT 6	
INITIAL		REORDER		REORDER		REORDER		REORDER	
P-1 SHOPPING LIST		ITEM NO. 58-44		ITEM NO. 58-44		ITEM NO. 58-44		ITEM NO. 58-44	
PAGE 1 OF 1 PAGES		EXHIBIT P-21		EXHIBIT P-21		EXHIBIT P-21		EXHIBIT P-21	

REMARKS: NSN: 3655-01-347-9055

UNCLASSIFIED

UNCLASSIFIED

REQUIREMENTS STUDY EXHIBIT P-20		DATE: February 1994	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE: NSN: 3655-01-347-9055 SELF GENERATING NITROGEN SYSTEM	
ELEMENT OF STUDY		MEMO ENTRIES	
		ELEMENTS OF INVENTORY OBJECTIVE	
ASSETS ON HAND AS OF 31 Mar 93	0	A. AIRFORCE	774
DUE-IN W/FY 93 AND PRIOR FUNDS	0	B. ANG	298
DUE-IN W/FY 94 PROGRAM FUNDS	30	C. AFR	72
TOTAL ASSETS		D. WRM	69
		TOTAL	1213
LESS DISPOSALS/EXPENDITURES			
A. DISPOSALS THRU FY 94	0	ACTUAL EXPENDITURE RATES	
B.	0	CY	
C.	0	CY	
D.	0	REMARKS	
TOTAL USAGES	0		
NET ASSETS: END OF FY 94	30		
LESS DISPOSALS/EXPENDITURES			
A. FY 95 DISPOSALS	0		
B.	0		
C.	0		
D.	0		
TOTAL			
NET ASSETS WITHOUT FY 95 BUY	0		
	30		
INVENTORY OBJECTIVE			
	1213		
REQUIRED FY 95 PROCUREMENT			
FY 95 PROCUREMENT PROGRAM QUANTITY	1183		
NET ASSETS: END OF FY 95	240		
	270		
REMARKS: FY95 PROCUREMENT PROGRAM QUANTITY BASED ON PRODUCABILITY.	P-1 SHOPP LIST ITEM NO. 58-45 PAGE NO.		

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE February 1994	
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE 1.5 Ton Liquid Oxygen/Liquid Nitrogen (LOX/LIN) Plant NSN: 3655-00-722-3901			
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998
QUANTITY	0	1	5	0	0	0
COST (in \$)	\$0.000	\$1.000	\$2.555	\$0.000	\$0.000	\$0.000
						FY 1999
						0
						\$0.000

A. DESCRIPTION/FUNCTION: The 1.5 Ton Liquid Oxygen/Liquid Nitrogen (LOX/LIN) generating and charging plant is a complete self-contained, electrically powered, transportable, plant that is capable of producing one and one half tons per day of oxygen and nitrogen in liquid and gaseous form.

B. PURPOSE OF PROCUREMENT: These plants, which will generate LOX/LIN for use by aircraft and hospitals, are required to fill overseas mobility shortages. Receiving bases will be able to produce liquid and gaseous oxygen and nitrogen upon demand and not have to rely on local contractors that may not be available or able to provide the purity required by MIL-SPEC standards.

C. APPLICATION: These mobile LOX/LIN plants will be used primarily in support of oxygen requirements for aircraft of all types. Support is required in both the operations and maintenance of the aircraft. Additionally, the plants will support hospital requirements for oxygen.

D. REQUIREMENTS: FY95: 5 shortages

E. IMPACT: LOX/LIN for aircraft and hospitals overseas is currently being produced by commercial and military plants. Plant locations vary and in most cases, local procurement of the products is not available. Experience has shown where the product is available commercially, overseas contractors fail to meet MIL-SPEC purity standards. Should the Air Force fail to provide/produce liquid/gaseous oxygen, the end result would be grounding of our overseas aircraft and non-support of hospitals both in peace and war. Should liquid/gaseous nitrogen not be provided/produced, proper servicing of aircraft accumulators, struts, and tires would not be possible. Aircraft maintainers would be forced into using compressed air which injects moisture to the system being serviced. This could cause hazardous conditions such as corrosion and freezing that could result in more expense than the cost of the LOX/LIN plant.

F. TYPE ITEM: A

P-1 SHOPP LIST ITEM NO. 58-46		PAGE NO.

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING										A. DATE February 1994	
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE 1.5 Ton Liquid Oxygen/Liquid Nitrogen (LOX/LIN) Plant NSN: 3655-00-722-3901						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQD	IF YES, WHEN AVAIL	
FY94	UNKNOWN	C/FP	AFMC/SA-ALC	JUN 94	APR 95	1	1,000,000	YES	NO		
FY95	UNKNOWN	OPTION	AFMC/SA-ALC	APR 95	DEC 95	5	511,000	YES	NO		

D. REMARKS			P-1 SHOPP LIST ITEM NO.		PAGE NO.		Exhibit P-22a	
FY94 UNIT COST BASED ON ENGINEERING ESTIMATE FOR FIRST ARTICLE TEST UNIT.			58-47					
FY95 UNIT COST BASED ON ENGINEERING ESTIMATE.								

# UNCLASSIFIED



UNCLASSIFIED

REQUIREMENTS STUDY EXHIBIT P-20		DATE: February 1994	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE: NSN: 3655-00-722-3901 1.5 TON LIQUID OXYGEN/LIQUID NITROGEN PLANT	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 93	18	ELEMENTS OF INVENTORY OBJECTIVE	
DUE-IN W/FY 93 AND PRIOR FUNDS	0	A. AIRFORCE	24
DUE-IN W/FY 94 PROGRAM FUNDS	1	B. ANG	0
TOTAL ASSETS	19	C. AFR	0
		D. WRIM	0
		TOTAL	24
LESS DISPOSALS/EXPENDITURES		ACTUAL EXPENDITURE RATES	
A. DISPOSALS THRU FY 94	0	CY	
B.	0	CY	
C.	0	REMARKS	
D.	0		
TOTAL USAGES	0		
NET ASSETS: END OF FY 94	19		
LESS DISPOSALS/EXPENDITURES			
A. FY 95 DISPOSALS	0		
B.	0		
C.	0		
D.	0		
TOTAL			
NET ASSETS WITHOUT FY 95 BUY	0		
	19		
INVENTORY OBJECTIVE	24		
REQUIRED FY 96 PROCUREMENT	5		
FY 96 PROCUREMENT PROGRAM QUANTITY			
NET ASSETS: END OF FY 95	5		
	24		
REMARKS:	P-1 SHOPP LIST ITEM NO. 58-49 PAGE NO.		

UNCLASSIFIED



UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE February 1994
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE Purge Unit NSN: 3655-00-429-2896				
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY	0	1	288	0	0	0	0
COST (in M)	\$0.000	\$0.050	\$2.880	\$0.000	\$0.000	\$0.000	\$0.000

A. DESCRIPTION/FUNCTION: The Purge Unit is used to evacuate and dehumidify liquid oxygen (LOX) and nitrogen (LIN) storage tanks during maintenance. The unit is trailer mounted for transport on the flightline. The unit consists of an electric motor and pulley driven blower, 6 kilowatt heater, and pressure lines. Air is drawn through elemental filters, forced into metal tubing, heated to 350 degrees and pressurized for discharge into the LOX/LIN tank undergoing maintenance.

B. PURPOSE OF PROCUREMENT: To fill shortages and replace 20 - 30 year old equipment that is rapidly becoming unsupportable and obsolete.

C. APPLICATION: Aircraft supported by this equipment include the B-1B, C-5, C-130, C-135, C-141, F-15, and F-16.

D. REQUIREMENTS: FY95 56 shortages  
232 replacements

E. IMPACT: Purge Units are used for direct aircraft maintenance as well as maintenance on storage and transport tanks for LOX production in support of life support and medical activities. LIN storage and transport tanks must be moisture free to prevent injection of moisture into aircraft accumulators, struts and tires. The currently in-use, obsolete method/equipment for purging moisture is 20 - 30 years old. If replacement Purge Units are not made available to perform this function properly, equipment and personnel safety is jeopardized.

	P-1 SHOPP LIST ITEM NO. 58-50	PAGE NO.	
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UNCLASSIFIED

## PROGRAM COST BREAKDOWN

DATE February 1994

APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE Purge Unit NSN: 3655-00-429-2896							
ELEMENT OF COST	IDENT CODE	(Total cost in thousands of dollars)							
		FY 1993		FY 1994		FY 1995			
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST		

1. PURGE UNIT  
2. TECHNICAL DATA  
TOTAL

[illegible]

**P-1 SHOPP LIST**  
**ITEM NO. 58-51**

**PAGE NO.**

**Exhibit P-22**

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING										A. DATE February 1994	
B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE Purge Unit NSN: 3655-00-429-2896						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY94 FY95	UNKNOWN UNKNOWN	C/FFP OPTION	AFMCSA-ALC AFMCSA-ALC	JUN 94 FEB 95	FEB 95 JUN 95	1 288	20,000 10,000	YES YES	NO NO		

D. REMARKS			P-1 SHOPP LIST ITEM NO. 58-52		PAGE NO.		Exhibit P-22a	
FY94 UNIT COST BASED ON ENGINEERING ESTIMATE OF FIRST ARTICLE TEST UNIT.								
FY95 UNIT COST BASED ON ENGINEERING ESTIMATE OF PRODUCTION UNITS.								

# UNCLASSIFIED

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FY98 BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: PURGE UNIT 3655-00-429-2886												DATE: February 1994																					
ITEM AFG		FISCAL YEAR 94				FISCAL YEAR 95				FISCAL YEAR 96				FISCAL YEAR 97																					
PROCUREMENT YEAR		CALENDAR YEAR 94				CALENDAR YEAR 95				CALENDAR YEAR 96				CALENDAR YEAR 97																					
S E R V		QTY	PROG	ACPT	IBAL	1 OCT	1 OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP					
FY94	AF	1	0	1																															
FY95	AF	288	0	288																															
FY95 (BP10 Initial)	AF	1	0	1																															
TOTAL		290	0	290																															
MANUFACTURER'S NAME AND LOCATION		UNKNOWIN																																	
PROD RATES		<table border="1"> <tr> <th>MIN</th> <th>MAX</th> <th>CHG</th> </tr> <tr> <td>1</td> <td>30</td> <td></td> </tr> </table>																												MIN	MAX	CHG	1	30	
MIN	MAX	CHG																																	
1	30																																		
REORDER		<table border="1"> <tr> <th>INITIAL</th> <th>REORDER</th> </tr> <tr> <td></td> <td>4</td> </tr> </table>																												INITIAL	REORDER		4		
INITIAL	REORDER																																		
	4																																		
ADMIN LEAD TIME		<table border="1"> <tr> <th>PR 1 OCT</th> <th>AFT 1 OCT</th> </tr> <tr> <td></td> <td>4</td> </tr> </table>																												PR 1 OCT	AFT 1 OCT		4		
PR 1 OCT	AFT 1 OCT																																		
	4																																		
MANUFACTURING TIME		<table border="1"> <tr> <th>TOTAL AFTER 1 OCT</th> </tr> <tr> <td>8</td> </tr> </table>																												TOTAL AFTER 1 OCT	8				
TOTAL AFTER 1 OCT																																			
8																																			
REMARKS:		<p>P-1 SHOPPING LIST ITEM NO. 58-53</p>																																	
PAGE 1 OF 1 PAGES		EXHIBIT P-21																																	

UNCLASSIFIED

UNCLASSIFIED

REQUIREMENTS STUDY EXHIBIT P-20		DATE: February 1994	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE: NSN: 3655-00-429-2696 PURGE UNIT	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 93	233	ELEMENTS OF INVENTORY OBJECTIVE	
DUE-IN W/FY 93 AND PRIOR FUNDS	0	A. AIRFORCE	170
DUE-IN W/FY 94 PROGRAM FUNDS	1	B. ANG	91
TOTAL ASSETS	234	C. AFR	24
		D. WRIM	4
		TOTAL	289
LESS DISPOSALS/EXPENDITURES		ACTUAL EXPENDITURE RATES	
A. DISPOSALS THRU FY 94	0	CY	
B.	0	CY	
C.	0	REMARKS	
D.	0		
TOTAL USAGES	0		
NET ASSETS: END OF FY 94	234		
LESS DISPOSALS/EXPENDITURES			
A. FY 95 DISPOSALS	99		
B.	0		
C.	0		
D.	0		
TOTAL			
NET ASSETS WITHOUT FY 95 BUY	99		
	135		
INVENTORY OBJECTIVE	289		
REQUIRED FY 95 PROCUREMENT	155		
FY 95 PROCUREMENT PROGRAM QUANTITY			
NET ASSETS: END OF FY 95	288		
	423		
P-1 SHOPP LIST			
ITEM NO. 58-54			
PAGE NO.			
REMARKS: * 134 ADDITIONAL ASSETS WILL BE DISPOSED OF IN FY96 AS REPLACEMENTS ARE RECEIVED.			

UNCLASSIFIED

UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE February 1994
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE Aircraft Pressurized Cabin Leakage Tester NSN: 4920-00-431-9397				
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998
QUANTITY	0	0	112	120	12	0
COST (in Mil)	\$0.000	\$0.000	\$2.278	\$2.441	\$0.244	\$0.000
						FY 1999
						0
						\$0.000

A. DESCRIPTION/FUNCTION: The Aircraft Pressurized Cabin Leakage Tester is a self-contained, portable, diesel-driven unit. This tester consists of a cabinet on a trailer chassis assembly which houses a diesel engine, a single stage positive displacement blower, intake and outlet silencers, after-cooler and fan, relief and rate control valves, flowmeter, canopy seal compressor and an instrument and control panel. The engine drives the blower. The leakage tester is used to detect life-threatening cabin pressure leaks and furnishes air supply under various combinations of pressures and flows to check aircraft cabins and canopy seals to ensure aircraft will be airworthy.

B. PURPOSE OF PROCUREMENT: This item is being procured to fill shortages and to replace equipment having critical support problems due to the age of the inventory which is 33 years.

C. APPLICATION: This item supports multiple aircraft including the A-10, B-1B, F-15, F-16, and F-117A.

D. REQUIREMENTS: FY95: 60 Shortages  
52 Replacements

E. IMPACT: The inability to perform accurate and timely checks of aircraft cabins for pressure leaks can be disastrous to the safety of the crew and aircraft. The wide application, heavy usage and critical function of the pressurized cabin tester requires it to be readily available on the flightline and in the shops. An aircraft cannot be cleared to fly its mission until it has received the tests performed by this item.

P-1 SHOPP LIST

ITEM NO. 58-55

PAGE NO.

UNCLASSIFIED

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING

B. APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT										C. P-1 ITEM NOMENCLATURE Aircraft Pressurized Cabin Leakage Tester NSN: 4920-00-431-9397				A. DATE February 1994	
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL					

FY91	HYDRAULIC INTERNATIONAL, INC	C/FFP	AFMCSA-ALC	JAN 93	APR 98*	2	35,000			
FY95	HYDRAULIC INTERNATIONAL, INC	OPTION	AFMCSA-ALC	OCT 94	MAY 95	112	20,339	YES	NO	
	HYDRAULIC INTERNATIONAL, INC CHATSWORTH, CA.									

D. REMARKS FY91 UNIT PRICE FOR FIRST ARTICLE. FY91 UNITS WILL BE RETAINED AS PRODUCTION SAMPLES. FIRST ARTICLE ACCEPTANCE IS SCHEDULED FOR AUGUST 1994. FY95 UNIT PRICE BASED ON FY91 CONTRACT OPTION PRICE.		P-1 SHOPP LIST ITEM NO. 58-56		PAGE NO.		Exhibit P-22a	
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# UNCLASSIFIED





UNCLASSIFIED

REQUIREMENTS STUDY EXHIBIT P-20		DATE: February 1994	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE: NSN: 4920-00-431-9397 ACFT PRESSURIZED CABIN LEAKAGE TESTER	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 93	209	ELEMENTS OF INVENTORY OBJECTIVE	
DUE-IN W/FY 93 AND PRIOR FUNDS	2	A. AIRFORCE	151
DUE-IN W/FY 94 PROGRAM FUNDS	0	B. ANG	65
TOTAL ASSETS	211	C. AFR	11
		D. WRM	44
		TOTAL	271
LESS DISPOSALS/EXPENDITURES			
A. DISPOSALS THRU FY 94	0		
B.	0		
C.	0		
D.	0		
TOTAL USAGES	0	ACTUAL EXPENDITURE RATES	
NET ASSETS: END OF FY 94	211	CY	
		CY	
LESS DISPOSALS/EXPENDITURES		REMARKS	
A. FY 95 DISPOSALS	52		
B.	0		
C.	0		
D.	0		
TOTAL	52		
NET ASSETS WITHOUT FY 95 BUY	159		
INVENTORY OBJECTIVE			
	271		
REQUIRED FY 95 PROCUREMENT			
FY 95 PROCUREMENT PROGRAM QUANTITY	112		
NET ASSETS: END OF FY 95	112		
	271		
REMARKS:	P-1 SHOPP LIST		
	ITEM NO.	58-58	
	PAGE NO.		

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE February 1994
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE Noise Suppressor, Large Turbo Fan Engine NSN: 4920-01-082-1095			
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998
QUANTITY	2	2	2	0	0	0
COST (in M)	\$4.097	\$4.176	\$4.920	\$0.000	\$0.000	\$0.000

A. DESCRIPTION/FUNCTION: This demountable unit (T-9) consists of structural steel framework lined with acoustical panels, engine thrust fixtures, engine hoist systems, air inlet splitter baffles, exhaust silencer, air compressor, and fire suppression system. This item is used to suppress noise generated by jet engines being run within a facility. This unit is primarily used for bomber, tanker and cargo units and is used to run only uninstalled engines. The overall test chamber system is of integrated design to achieve the necessary operating conditions for satisfactory engine testing and, at the same time, achieve the aerodynamic and thermo-dynamic requirements of the specific engine under test.

B. PURPOSE OF PROCUREMENT: This noise suppressor is the only engine test suppressor presently in the inventory that will accommodate the thrust capacity of the F101 and F108 engines and any other new generation jet engine exceeding 35000 pounds thrust. The requirement for noise suppressors generated from the increasing emphasis on environmental control and a finding by the surgeon general that over 2000 Air Force personnel were being retrained each year for new jobs due to hearing loss associated with jet engine noise. The two FY95 units are in support of United States Air Forces Europe (USAFE) at Ramstein AB, and Spangdahlem AB, Germany.

C. APPLICATION: This item is required at various CONUS and HQ USAFE locations for the F101, F108 and other engines exceeding 35000 pounds thrust. Aircraft supported are the B-1, F-16, C-141, KC-135E, and F-15.

D. REQUIREMENTS: FY95 - 2 Shortages

E. IMPACT: Without adequate noise sound suppression, engine operation is restricted to certain hours of operation (usually daylight up to approximately 2200 hours), which jeopardizes aircraft readiness. Base personnel would be exposed to severe noise with possible hearing damage or loss. In addition, community relations are often strained due to unsuppressed jet engine operation.

P-1 SHOPP LIST ITEM NO. 58-59	PAGE NO.
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# UNCLASSIFIED

# UNCLASSIFIED

PROGRAM COST BREAKDOWN				DATE February 1994	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Noise Suppressor, Large Turbo Fan Engine			
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT		NSN: 4920-01-082-1095			
ELEMENT OF COST		(Total cost in thousands of dollars)			
IDENT CODE	FY 1993		FY 1994		FY 1995
	QTY	TOTAL COST	QTY	TOTAL COST	QTY

1. NOISE SUPPRESSOR	A	2	3,457	2	3,536	2	3,616
2. ACCEPTANCE TEST			4		4		4
3. OTHER*			67		67		731
4. CONTROL ROOM**		2	569		569		569
TOTAL			4,097	2	4,176	2	4,920

\*In addition to basic unit cost, overseas destinations include a transportation and travel differential. Destinations above the 38th parallel have a Northern tier requirement to enclose the observation booth and provide a lean-to.

\*\*Installation of a control room provides sites with multi-aircraft missions the capability to test different engines without significant down-time.

P-1 SHOPP LIST		PAGE NO.		EXHIBIT P-22	
ITEM NO.		58-60			

# UNCLASSIFIED

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## BUDGET PROCUREMENT HISTORY PLANNING

A. DATE  
February 1994

### B. APPROPRIATION/BUDGET ACTIVITY

#### AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT

C. P-1 ITEM NOMENCLATURE Noise Suppressor, Large Turbo Fan Engine NSN: 4920-01-082-1095

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY93	IND ACOUSTICS	C/FFP OPTION	AFMC/SA-ALC	MAY 93	JAN 95	2	1,728,260	YES	NO	
FY94	IND ACOUSTICS	OPTION	AFMC/SA-ALC	SEP 94	SEP 95	2	1,768,010	YES	NO	
FY95	IND ACOUSTICS	OPTION	AFMC/SA-ALC	MAY 95	MAY 96	2	1,807,760	YES	NO	
	INDUSTRIAL ACOUSTICS MONCKS CORNER SC									

### D. REMARKS

FY93 UNIT COST BASED ON FY92 CONTRACT PRICE DEFINITIZED IN DEC 93. FY94 AND FY95 UNIT COSTS BASED ON FY93 ESCALATED BY RESPECTIVE OSD INFLATION FACTORS.

P-1 SHOPP LIST  
ITEM NO. 58-61

Exhibit P-22a

# UNCLASSIFIED



UNCLASSIFIED

REQUIREMENTS STUDY EXHIBIT P-20		DATE: February 1994	
APPROPRIATION / BUDGET ACTIVITY AIRCRAFT PROCUREMENT, COMMON SUPPORT EQUIPMENT		P-1 ITEM NOMENCLATURE: NSN: 4920-01-002-1096 NOISE SUPPRESSOR, LARGE TURBO FAN ENGINE	
ELEMENT OF STUDY		MEMO ENTRIES	
ASSETS ON HAND AS OF 31 Mar 93	26	ELEMENTS OF INVENTORY OBJECTIVE	
DUE-IN W/FY 93 AND PRIOR FUNDS	4	A. AIRFORCE	23
DUE-IN W/FY 94 PROGRAM FUNDS	2	B. ANG	10
TOTAL ASSETS	32	C. AFR	1
		D. WRM	0
		TOTAL	34
LESS DISPOSALS/EXPENDITURES			
A. DISPOSALS THRU FY 94	0		
B.	0		
C.	0		
D.	0		
TOTAL USAGES		ACTUAL EXPENDITURE RATES	
NET ASSETS: END OF FY 94	0	CY	
		CY	
		REMARKS	
	32		
LESS DISPOSALS/EXPENDITURES			
A. FY 95 DISPOSALS	0		
B.	0		
C.	0		
D.	0		
TOTAL			
NET ASSETS WITHOUT FY 95 BUY	0		
	32		
INVENTORY OBJECTIVE	34		
REQUIRED FY 95 PROCUREMENT	2		
FY 95 PROCUREMENT PROGRAM QUANTITY			
NET ASSETS: END OF FY 95	2		
	34		
REMARKS:	P-1 SHOPP LIST ITEM NO. 58-63 PAGE NO.		

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE February 1994
APPROPRIATION/BUDGET ACTIVITY AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT			P-1 ITEM NOMENCLATURE B-2 Common Support Equipment					
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	
QUANTITY								
COST (In Mil)	\$2.600	\$5.700	\$4.036	\$5.742	\$5.320	\$2.566	\$0.000	

A. DESCRIPTION/FUNCTION: The B-2 Advanced Technology Bomber is an intercontinental bomber that employs low observable or stealth technology to achieve its mission. The B-2 has the capability to deliver both nuclear and conventional weapons against fixed and relocateable targets. The aerodynamic design of the B-2 Bomber is markedly more efficient (requires fewer tankers) than its predecessors.

The B-2 Bomber is an all-wing, two-place aircraft with twin weapons bays. Four General Electric F-118-GE-100 aircraft engines power the B-2. The F-118 engine is a derivative of the F-100 engine currently used in the F-16 fighter and is in the 19,000 pound thrust class.

B. PURPOSE OF PROCUREMENT: Provides support equipment for the B-2 bombers, related F-118 engines, and advanced application rotary launchers and armament. This funding request is based on support equipment requirements for the Main Operating Base at Whiteman AFB, MO (first base) and the technical repair center at Oklahoma City Air Logistics Center.

C. APPLICATION: B-2

D. IMPACT: Without this support equipment, the B-2's system reliability and overall air worthiness cannot be maintained. With this aircraft as with other aircraft, ground maintenance and testing must be performed. Properly maintaining the condition of the B-2 is critical to its success as a survivable penetrator. With the decreased numbers of B-2 aircraft being procured, it is additionally essential that aircraft downtime be kept to a minimum.

P-1 SHOPP LIST ITEM NO.		PAGE NO.	
58-64			

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE February 1994
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE Interim Contractor Support (ICS)					
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT								
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	
QUANTITY								
COST (In Mil)	\$5.454	\$7.607	\$3.335	\$706	\$818	\$844	\$877	

- A. DESCRIPTION/FUNCTION: Interim Contractor Support (ICS) is a pre-planned, temporary support alternative for the initial period of operational use of new U. S. Air Force weapon systems, equipment or modifications for which eventual organic support is planned. With ICS a contractor provides repair based on operational tempo, reliability and maintainability factors and past/projected failure rates. ICS incorporates non-recurring investment costs such as repair parts procurement, technical data and support equipment.
- B. PURPOSE OF PROCUREMENT: ICS is designed to provide a bridge from an acquisition process to an Air Force self-sustaining program. It allows time for support equipment development/delivery, training and training equipment development/delivery, technical data development/validation and spares identification/delivery.
- C. APPLICATION: Common support equipment ICS funding supports the B-1B, B-52, C-5, C-130, E-3, F-4, F-16, F-15, F-111, and KC-135 aircraft.

P-1 SHOPP LIST ITEM NO.58-65		PAGE NO.
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# UNCLASSIFIED



# UNCLASSIFIED

PROGRAM COST BREAKDOWN										DATE February 1994
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE Interim Contractor Support (ICS)					
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT					(Total cost in thousands of dollars)					
ELEMENT OF COST	IDENT CODE	FY 1993			FY 1994			FY 1995		
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	

1. B-1B Intermediate Automatic Test Equipment			2,437		2,000		950
2. USM-603 Electronic Test Station			1,043		1,300		341
3. Engine Test/Trim Automated System			487		653		
4. Radio Frequency Transmission Line Tester			378		1,200		
5. Modular Intermediate Depot Automatic Test Station			200		954		853
6. E-3A Airborne Warning and Control System			120				
7. B-52			262				
8. F-16			527		1,500		
9. Multifunction Analysis Data and Recording System							
10. Automatic Weapon System Tester							100
11. Digital Data Control Module							57
12. AN/ALM-195A							300
13. AN/USM-639							450
14. Transmitter Test Set							115
15. Benchtop Reconfigurable Automatic Tester							119
16. Digital Subsystem Test Set							50
Total			5,454		7,607		3,335

P-1 SHOPP LIST ITEM NO. 58-66		PAGE NO.	Exhibit P-22
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE February 1994
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE Items Less Than \$2,000,000					
AIRCRAFT PROCUREMENT COMMON SUPPORT EQUIPMENT							
	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY							
COST (In Mil)	\$102.780	\$52.711	\$30.703	\$	\$	\$	\$

DESCRIPTION/FUNCTION: Items less than \$2,000,000 provide replacement organizational and intermediate common and peculiar support equipment for out-of-production aircraft. These items, common to more than one weapon system, are used in direct support of aircraft requirements.

These replacement requirements in the "Items Less than \$2,000,000" category ensure continuation of serviceable, supportable equipment over the life of a weapon system.

A listing of items less than \$2,000,000 follows. All items are Code A.

	P-1 SHOPP LIST ITEM NO. 58-67	PAGE NO.	
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# UNCLASSIFIED

UNCLASSIFIED

February 1994					
FY95 PRESIDENTS BUDGET					
BP 12 COMMON SUPPORT EQUIPMENT (CSE)					
ITEMS LESS THAN \$2M (DOLLARS IN MILLIONS)					
	NOUN	NSN	FY95		
			QTY	AMOUNT	
1	HEATER, TYPE H-1	4520-01-310-1881	331	1.422	
2	AN/APQ-120 COMPUTER TEST SET	4920-NSL	1	1.320	
3	C-141 CENTER WING BOX			0.500	
4	COMPRESSOR, MC-7	4310-00-595-3866	172	1.830	
5	COMPRESSOR, MC-11	4310-00-541-7060	28	0.870	
6	DAMAGE TOLERANCE ANALYSIS SE			0.757	
7	POWER SUPPLY/FREQUENCY CONVERTER	6130-01-237-1621	58	1.545	
8	COOLER, LIQUID COOLANT SYSTEM	4120-01-068-6904YR	4	0.920	
9	IGNITION TEST SET	4920-00-439-5525	50	1.442	
10	3000 GALLON LIQUID OXYGEN STORAGE TANK	3655-01-353-6699YD	34	1.245	
11	HYDRAULIC TEST STAND	4920-00-880-5994	7	1.715	
	SUBTOTAL			13.566	
	ITEMS LESS THAN \$500,000				
	FEDERAL STOCK GROUP (FSG)				
12	FSG 1730 (ACFT GROUND SERVICE EQUIP)			0.029	
13	FSG 2330 (TRAILERS)			0.031	
14	FSG 4920 (ACFT MAINTENANCE SHOP SE)			1.211	
15	FSG 5985 (ANTENNA WAVEGUIDE EQUIP)			0.021	
16	FSG 6625 (ELECTRONIC TEST EQUIP)			0.343	
17	FSG 6635 (PHYSICAL PROP TEST EQUIP)			1.316	
18	FSG 6650 (OPTICAL TEST EQUIP)			0.048	
19	OTHER			14.138	
	SUBTOTAL			17.137	
	TOTAL			30.703	

58-68

UNCLASSIFIED

UNCLASSIFIED

## Exhibit P-43

## SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)

DATE: 18 FEB 94

Appropriation/P-1 Line Item  
3010/BP 1200Weapon System (If Applicable)  
C-141 ATS

Equipment Nomenclature

Fin Plan	Prior Years FY93	Current FY FY94	BY1 FY95	BY2 FY96	BY2+1 FY97	BY2+2 FY98	BY2+3 FY99	Total
Quantity	2	3						5
Proc	10546	16099						26645
RDT&E	3875	2370						6245
O&S	10464	18000	20000	19120				67584

## TRAINING SYSTEM DESCRIPTION:

The C-141 ATS program will develop and deploy a training system which will provide a complete continuum of training (Initial qualification, upgrade, and continuation training) for each C-141 active duty and reserve forces aircrew member and maintenance engine run technician. It will also include the Basic Flight Engineer Course for all DOD and Allied flight engineers. The program is designed to provide for the maintenance and logistic support of all ATS associated training equipment and to operate a training management system to track student progress and update the training program. The contract also includes contractor maintenance logistics, and instructor support of the new C-141 ATS following delivery to the sites.

P-1 Shopping List  
Item No.

58-69

Exhibit P-43, Page 1

Simulator &amp; Trng Device Justification

UNCLASSIFIED

Exhibit P-43

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 2) (\$000)											DATE: 18 FEB 94		
Appropriation/P-1 Line 3010/BP 1200				Weapon System (If Applicable) C-141 ATS			IOC Date		Equipment Nomenclature				
Training Device By Type	Site	Delivery Date	Ready for Training Date	Average Student Throughput	Prior Years FY93		Current Year FY94		Budget Yr 1 FY95		To Complete Cost		
					Qty	Cost	Qty	Cost	Qty	Cost			
WST	McGWIR	Oct-94	Feb-94	524			1	2693					
WST	TRAVIS	Jan-95	Jun-94	368	1	4218							
WST	McGWIR	Jan-95	Oct-94	Shared with #1 WST	1	4218	1	2693					
WST	McCHRD	Jun-95	Apr-95	454			1	2693					
WST	CHRLTN	UNKWN	UNKWN	400									
VISUAL IG	ALTUS												
					P-1 Shopping List		Item No.		EXHIBIT P-43, Page 2 of 3				
							58-70						

## Exhibit P-43

SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)										DATE: 18 FEB 94	
Training Device by Type:   ATS				Weapon System (If Applicable): C-141							
Description/Justification:   The C- 141 ATS production contract procures simulator upgrades with new motion, visual and other modifications. Also included are computer-based training and courseware production.											
Financial Plan	Prior Years FY93		Current Year FY94		Budget Year 1 FY95		Cost to Complete		Total Cost		
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
HARDWARE COSTS											
Device (Hardware)	2	8436	3	8080						16516	
ECOs		1333		1087		0		0		2420	
Nonrecurring											
GFE											
Other - Visual Sys Upgrde				5486						5486	
Total Hardware Costs		9769		14653		0		0		24422	
SUPPORT COSTS											
Special SE		42		37						79	
Integrated Logistics Supt											
Other EPA/Support		735		1409						2144	
Total Support Costs		777		1446		0		0		2223	
Software/Courseware											
TOTAL COSTS		10546		16099		0		0		26645	
						P-1 Shopping List Item No. 58-71			EXHIBIT P-43, Page 3 of 3		

## Exhibit P-43

## SIMULATOR AND TRAINING DEVICE JUSTIFICATION (\$000)

Appropriation/P-1 Line Item 3010/BP 1200			Weapon System (If Applicable) AMC UPGRADE				Equipment Nomenclature			
Fin Plan	Prior Years FY93	Current FY FY94	BY1 FY95	BY2 FY96	BY2+1 FY97	BY2+2 FY98	BY2+3 FY99	Total		
Quantity										
Proc	0	0	40226	24953	14052	405	396	80032		
RDT&E	0	0	0	0	0	0	0	0		
O&S	0	2000	6000	0	0	0	0	8000		

## TRAINING SYSTEM DESCRIPTION:

The AMC Upgrade program will reduce aircraft training flights by upgrading training devices to allow FAA Level C equivalent training. Pilots would then be qualified from ground training, significantly reducing aircraft hours. Systems involved are the C-5, C-141, KC-135, C-130, KC-10, and potentially the C-17. Perceived upgrades could include motion systems, visual systems, computer rehosts, and high fidelity aerodynamic simulations. The specific requirements for each training system will be determined in a detailed analysis beginning in FY94 using 3400 funds.

P-1 Shopping List  
Item No.

58-72

Exhibit P-43  
Simulator & Trng Device Justification

Exhibit P-43											
SIMULATOR AND TRAINING DEVICE JUSTIFICATION (Page 3) (\$000)											
Training Device by Type: AMC UPGRADE		Weapon System (If Applicable):									
Description/Justification: The AMC Upgrade program will reduce aircraft training flights by upgrading training devices to allow FAA level C equivalent training. Pilots would then be qualified from ground training, significantly reducing aircraft hours.											
Financial Plan		Current Year		Budget Year 1		Budget Year 2		Cost to Complete		Total Cost	
		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
HARDWARE COSTS											
Device (Hardware)											
ECOs											
Nonrecurring											
GFE											
Other - Visual Sys Upgrade											
Total Hardware Costs											
SUPPORT COSTS											
Special SE											
Integrated Logistics Supt											
Other EPASupport											
Total Support Costs											
Software/Courseware											
TOTAL COSTS											
		P-1 Shopping List Item No.				58-73		EXHIBIT P-43			



UNCLASSIFIED

P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE:	
APPROPRIATION/BUDGET ACTIVITY						18-Feb-94	
AIRCRAFT PROCUREMENT/ AF BA04 Other Aircraft						P-1 ITEM NOMENCLATURE Cancelled Accounts	
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY							
COST (In Millions)	26.6						
MISSION AND DESCRIPTION: Provides funds to cover expenditures from cancelled APAF appropriations.							
(P-40)							

P-1 Shopping List

EXHIBIT P-40

63-1  
UNCLASSIFIED

## UNCLASSIFIED

BUDGET ITEM JUSTIFICATION SHEET		Date: FEB 1994
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA07, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	INDUSTRIAL PREPAREDNESS	

	FY 1993	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY							
COST (IN millions)	35.1	25.1	52.5	48.6	34.6	33.5	34.4

**Mission and Description:**

1. The Air Force Industrial Preparedness Program (IPP) combines the resources of several appropriations to create a comprehensive program. The goal is to ensure that the defense industry is capable of supplying reliable, cost-effective systems to operational commanders during peacetime and national emergencies. The program acknowledges the industrial base as a vital element in war deterrence and sustainability. Major elements in the program include management of government-owned industrial plants and the Defense Production Act Title III Program, plus support for industrial preparedness planning. These activities characterize the critical sectors and industries within the industrial base, make recommendations to resolve deficiencies and bottlenecks, and, where appropriate, execute plans of action designed to enhance the industrial base. Funds in this appropriation are to support the aircraft procurement segment of the Air Force IPP.
2. Although the elements of cost are broken down in greater detail, in FY 94/95 two activities are funded in this appropriation: Industrial Plants and Planning. Elements A.B.C.D.F. and H support Industrial Plants for repair and expansion, major rehabilitation, environmental compliance, equipment movement and energy conservation at seven (7) DoD-owned, contractor-operated industrial facilities. These plants are the backbone of DoD weapon system assembly and maintenance for the B-2, F-15, F-16, C-130, C-5B, and F-117. Element E supports Planning activities for analysis of problems, constraints, and opportunities in the aircraft sector to ensure the industrial base can support active and reserve forces in peacetime, meet planned contingency needs, reconstitute quicker than any emerging threat, and do so as efficiently and cost effectively as possible. Collection and maintenance of aircraft sector industrial data is essential to supporting affordable sustainability and readiness. Element G supports Industrial Modernization for joint ventures between government and industry to accelerate the implementation of modern equipment and management techniques. Supports actions to resolve industrial base problems identified in Planning cost element above. Principal funded effort, the Industrial Modernization Incentives Program (IMIP), was phased out after FY 1993.

UNCLASSIFIED

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PROGRAM COST BREAKDOWN		Date: FEB 1994
APPROPRIATION/BUDGET ACTIVITY	P-1 ITEM NOMENCLATURE	
AIRCRAFT PROCUREMENT/BA07, AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES	INDUSTRIAL PREPAREDNESS	

(Total Cost in Millions of Dollars)

ELEMENT OF COST	IDENT CODE	FY 1993		FY 1994		FY 1995	
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
A. EXPANSIONS	1000						
B. PACKING, CRATING, & HANDLING	2000						
C. CAPITAL TYPE REHABILITATION	3000		4.184		4.113		8.770
D. REPLACEMENT & MODERNIZATION	4000		0		0		8.504
E. PLANNING	6000		3.976		4.012		4.445
F. ENVIRONMENTAL PROTECTION	7000		15.099		16.959		30.792
G. INDUSTRIAL MODERNIZATION	8000		11.869		0		0
H. ENERGY CONSERVATION	9000						
TOTALS			35.128		25.084		59.511

UNCLASSIFIED

UNCLASSIFIED

P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET							DATE:
							18-Feb-94
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE				
AIRCRAFT PROCUREMENT/ AF BA07			War Consumables				
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES							
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY							
COST (In Millions)	27.8	17.9	26.6				
MISSION AND DESCRIPTION:							
Missile LAU-128/129	15.0	13.9	16.6				
Items under \$2M	0.1	0.8	0.3				
HH-53 Tanks	0.0	0.0	3.9				
F-15 Pylon	12.7	3.2	5.8				

(P-40)

P-1 Shopping List

EXHIBIT P-40

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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE:	
						18-Feb-94	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
AIRCRAFT PROCUREMENT/ AF BA07		Launcher, Missile LAU - 128/129					
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES							
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY	618	567	667	0	0	0	0
COST (In Millions)	15.0	13.9	16.6				
MISSION AND DESCRIPTION:							
<p>A. (U) Functional / Technical Description: The LAU-128/129 launchers are missile rail launchers intended to replace AIM-9 launchers on F-15 and F-16 aircraft. The LAU-128/129 launchers provide dual carriage and launch requirements for AIM-9 (Sidewinder) and AIM-120 (Advanced Medium Range Air To Air Missile (AMRAAM) missiles. The LAU-128 supports the F-15 and the LAU-129 supports the F-16 and the LAU-129 supports the F-16.</p> <p>B. (U) Deficiencies/General Operational Requirements Satisfied By The Item Procured: Available upon request.</p>							
(P-40)	P-1 Shopping List						EXHIBIT P-40

60-2  
UNCLASSIFIED

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PROGRAM COST BREAKDOWN (EXHIBIT P-22)										DATE FEBRUARY 1994	
APPROPRIATION/BUDGET ACTIVITY APAF/WAR CONSUMABLES										P-1 ITEM NOMENCLATURE LAUNCHER, MISSILE LAU-128/129	
ELEMENT OF COST										COST IN THOUSANDS OF DOLLARS FY 1993   FY 1994   FY 1995	
IDENT CODE	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	TOTAL COST
1. LAU-128 (F-16)	A	\$	350	8,514	342	8,404	379	9,409			
2. LAU-128 (F-16)	A		268	6,519	225	5,529	288	7,150			
TOTAL			618	15,033	567	13,934	667	16,559			
P-1 SHOPP LIST										PAGE NO. 69-3	
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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET							DATE:
							18-Feb-94
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
AIRCRAFT PROCUREMENT/ AF BA07		WAR CONSUMABLES					
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES		MISC ITEMS UNDER \$2M					
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY	54	1522	582	0	0	0	0
COST (In Millions)	0.1	0.8	0.3				
<b>MISSION AND DESCRIPTION:</b>							
1. (U) Functional / Technical Description: This category consists of fuel tank crates required for peacetime storage and handling							
2. Specific FY95 requirements are listed below.							
<u>Nomenclature</u>		<u>Qty</u>	<u>\$ in M</u>				
F-16 300 Gal fuel tank crate		158	0.079				
F-16 370 Gal fuel tank crate		424	0.212				
Total		582	0.291				
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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET							DATE:
							18-Feb-94
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE				
AIRCRAFT PROCUREMENT/ AF BA07			WAR CONSUMABLES				
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES			HH-53 Crashworthy 650 Gallon Tanks				
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY	0	0	47	0	0	0	0
COST (In Millions)	0.0	0	3.9				
DESCRIPTION:							
<p>1. (U) Functional/technical Description: The 650 gallon external fuel tank is applicable to the HH-53 Helicopter and is attached to the helicopter with a pylon that is released from the helicopter during flight if necessary. There are two tanks per helicopter, both tanks are jettisoned at the same time in case of an emergency.</p> <p>2. (U) Deficiencies/General Operational Requirements Satisfied By The Item Procured: Available on request.</p>							
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PROGRAM COST BREAKDOWN  
(EXHIBIT P-22)

DATE  
FEBRUARY 1994

APPROPRIATION/BUDGET ACTIVITY  
APAF/WAR CONSUMABLES

P-1 ITEM NOMENCLATURE  
HH-53 CRASHWORTHY 850 GALLON TANKS

ELEMENT OF COST	IDENT CODE	COST IN THOUSANDS OF DOLLARS						FY 1995	
		QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST	QTY	TOTAL COST
1. HH-53 CRASHWORTHY 850 GALLON TANKS	A		\$		\$		\$	47	3.925
TOTAL					0		0	47	3.925

P-1 SHOPP LIST  
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PROCUREMENT HISTORY AND PLANNING (EXHIBIT P-22A)										DATE FEBRUARY 1984	
APPROPRIATION/BUDGET ACTIVITY APAF/WAR CONSUMABLES											
P-1 ITEM NOMENCLATURE HH-53 CRASHWORTHY 850 GALLON TANKS											
LINE/ITEM FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIV.	QUAN- TITY	UNIT COST	SPECS AVAIL NOW	SPEC REV. REQ.	IF YES WHEN AVAIL	
HH-53 CRASHWORTHY 850 GALLON TANKS											
FY 1982	LEAR SIEGLER SANTA ANA, CA	C/FPP	AFMC/OO-ALC	JUL 93	MAR 95	15	82,000.00				
FY 1985	UNKNOWN	C/FPP	AFMC/OO-ALC	APR 95	DEC 96	47	83,500.00	YES	NO		
REMARKS:											
P-1 SHOPP LIST ITEM NO. 60-8											
PAGE NO.											

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P-40 FOR NET P-1 COST

BUDGET ITEM JUSTIFICATION SHEET						DATE:	
APPROPRIATION/BUDGET ACTIVITY						18-Feb-94	
AIRCRAFT PROCUREMENT/ AF BA07						P-1 ITEM NOMENCLATURE	
AIRCRAFT SUPPORT EQUIPMENT AND FACILITIES						WAR CONSUMABLES	
						Pylon, Centerline , F-15	
	FY(CY)93	FY(BY1)94	FY(BY2)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY	87	22	38				
COST (In Millions)	12.7	3.2	5.8				
MISSION AND DESCRIPTION:							
<p>1. (U) FUNCTIONAL DESCRIPTION: The F-15 centerline pylon connects weapons stores or the 600 gallon fuel tank to the fuselage of the F-15 aircraft. The pylon provides the capability to jettison the stores or the external tank in order to enhance wartime survivability. These are three models of centerline pylons: one is compatible with non-multi-stage improvement program (MSIP) F-15S (Pre-MSIP SUU-60/A); another is designed for use on MSIP F-15A/B/C/D's (SUU-60B/A) and a third is configured for the F-15E (SUU-73/A). These pylons have different stock numbers because the munitions/tank adapter units, which are integral parts of the pylons are different for each model of pylon. The adapter units on the F-15E centerline pylon must be certified to carry and release unclear weapons.</p> <p>2. (U) DEFICIENCIES/GENERAL OPERATIONAL REQUIREMENTS SATISFIED BY THE ITEM BEING PROCURED: Available on request.</p>							

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P-1 Shopping List

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PROCUREMENT HISTORY AND PLANNING (EXHIBIT P-22A)										DATE FEBRUARY 1994	
APPROPRIATION/BUDGET ACTIVITY APAF/WAR CONSUMABLES					P-1 ITEM NOMENCLATURE PYLON, CENTERLINE, F-15						
LINE/ITEM FISCAL YEAR	CONTRACTOR AND LOCATION	CONTRACT METHOD AND TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIV.	QUAN- TITY	UNIT COST	SPECS AVAIL NOW	SPEC REV. REQ.	IF YES WHEN AVAIL	
PYLON, CENTERLINE, F-15											
FY 1993	MCDONNELL AIR TULSA OK	SS/FFP	AFMC/WR-ALC	SEP 93	AUG 95	87	145,945.00				
FY 1994	MCDONNELL AIR TULSA OK	OPTION	AFMC/WR-ALC	JUL 94	JUL 96	22	145,945.00	YES	NO		
FY 1995	MCDONNELL AIR TULSA OK	SS/FFP	AFMC/WR-ALC	JUL 95	FEB 97	36	152,950.36	YES	NO		
REMARKS:											
P-1 SHOPP LIST ITEM NO.					PAGE NO. 60-11						

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FY95 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE: PYLON, CENTERLINE										DATE: FEBRUARY 1994																																																																																																																							
ITEM/MFG PROCUREMENT YEAR										S		PROC		ACCP		BAL		FISCAL YEAR 94										FISCAL YEAR 95										FISCAL YEAR 96										LAT																																																																																											
										E		R		QTY		PRIOR		DUE		CALENDAR YEAR 94										CALENDAR YEAR 95										CALENDAR YEAR 96										ER																																																																																									
PYLON, CA										V		1-Oct		1-Oct		FEB										MAR										APR										MAY										JUN										JUL										AUG										SEP																																																					
MCAIR TULSA OK																																																																																																																																											
FY91										AF		56		0		56		15										15										15										11																														0																																																													
FY92										AF		58		0		58												15										15										15										13																														0																																																			
FY93										AF		87		0		87																																15										15																														57																																																			
FY94										AF		22		0		22												C																																																												22																																																			
FY95										AF		38		0		38																						C																																																		38																																																			
TOTAL												261		0		261		0										0										0										0										0										0										0										0										0										0										117																					
REMARKS: QUANTITY IS EACH.																		OCT										NOV										DEC										JAN										FEB										MAR										APR										MAY										JUN										JUL										AUG										SEP											
MANUFACTURER'S NAME AND LOCATION										PROD RATES		MIN		MAX		REA.		ADMIN LEAD TIME										MANUFACTURING TIME										TOTAL AFTER 1 OCT																																																																																																					
MCAIR TULSA, OK										6		20				PR 1 OCT										AFT 1 OCT										24										33																																																																																													
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																REORDER										9										19										28																																																																																													

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UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET				DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				Feb-94	
AIRCRAFT PROCUREMENT/AF, BA07, OTHER PRODUCTION CHARGE		Other Charges					
	FY (PY) 93	FY (CY) 94	FY (BY) 95	FY (BY+1) 96	FY (BY+2) 97	FY (BY+3) 98	FY (BY+4) 99
QUANTITY	0	0	0	0	0	0	0
COST (in thousands)	586362	638093	259467	295884	309512	315604	320693

These programs provide for items, which (1) are not directly related to other procurement line items in this appropriation, (2) cannot be reasonably allocated and charged to other procurement line items in this appropriation, (3) can be managed as separate end items, and (4) contains certain classified programs. It includes such programs as LANTIRN, range improvements, and NAVSTAR GPS that are used by multiple systems. It also includes programs such as AGM 130 IDL and FOTRS which apply to a single system.

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P-1 Shopping List

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FY 95 PRESIDENT'S BUDGET  
OTHER PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)

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## BP-1900 SUMMARY\*

	FY 93	FY 94	FY 95
Classified Programs	285248	284797	70344
ECM Support	9137	14319	9755
Interim Contractor Support	13171	1547	1306
Range Improvement	6515	8115	26608
LANTIRN	3099	25871	13707
NAVSTAR GPS	82601	67175	70311
KC-135 Cargo Rollers	7489	2998	3842
GBU-15/AGM-130 Improved Data Link	19478	12295	13888
HAVE NAP	878	0	0
NATO AWACS	40027	88336	2934
F-117	114025	106914	37822
Flight Screening	0	106	108
Training (Offensive)	4682	4686	0
Pollution Prevention	0	8152	8842
FOTRS	12	12782	0
TOTAL COST	586362	638093	259467

\* Errors due to rounding

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OTHER PRODUCTION CHARGES FACT SHEET  
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PROJECT TITLE: Classified Programs

DESCRIPTION/JUSTIFICATION: Details of the following programs are available on a need-to-know basis.

PROJECTED FINANCIAL PLAN:

BASIS FOR COST ESTIMATE

	FY 93	FY 94	FY 95
Special Evaluation Program	6048	2714	2807
Compass Call	19978	24728	4041
Evaluation & Analysis Program	15229	0	0
Classified Programs	0	8532	56362
Advanced Program Evaluation	0	6691	6678
Tactical Crypt Activities	35661	10480	0
Missile & Space Technology	0	9086	0
Senior Year	206971	221607	0
Forest Green	1361	959	456
TOTAL COST	285248	284797	70344

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## OTHER PRODUCTION CHARGES FACT SHEET

(Dollars in Thousands)

PROJECT TITLE: ECM Support (U)

MODELS OF AIRCRAFT APPLICABLE: A-10, B-1, B-52, F-15, F-16, F-4G, F-111, EF-111, MC-130, AC-130, C-130, MH-53J, MH-60, OV-10

DESCRIPTION/JUSTIFICATION: Funds are required by the Electronic Warfare Avionics Integrated Support Facility (EWASIF) to directly support the Electronic Warfare Integrated Reprogramming (EWIR) process. The EWASIF manages MAJCOM requirements and procures unique and replacement equipment critical to USAF aircraft defensive systems capability, and combat readiness. EWIR enables global reach/global power projection, and includes requirements for, but is not limited to: EW systems software upgrades, hardware maintenance for existing EW system reprogramming support facilities, computer acquisition and upgrades, support equipment software maintenance, aircraft EW system reprogramming software tools, intelligence data manipulation software, threat emitter simulation lab test equipment supporting technology insertion programs, data transmission communications equipment, and EW system software emulation models.

DEVELOPMENT STATUS: (U) Production prototypes are acquired for evaluation prior to production.

### PROJECTED FINANCIAL PLAN:

#### BASIS FOR COST ESTIMATE:

ECM Support	9137	14319	9755
TOTAL COST	9137	14319	9755

LEAD TIME: Variable

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## OTHER PRODUCTION CHARGES FACT SHEET

(Dollars in Thousands)

PROJECT TITLE: Interim Contractor Support

MODELS OF AIRCRAFT APPLICABLE: N/A

DESCRIPTION/JUSTIFICATION: Provides ECM logistics support suite to assist in transition to organic capability for the F-111, LANTIRN and the B-52 in FY 93, and NAVSTAR and Common ECM in FYs 94 and 95.

### PROJECTED FINANCIAL PLAN:

	FY 93	FY 94	FY 95
B-52 Squadrons	805	0	0
F-111 Squadrons	3814	0	0
LANTIRN Procurement	8552	0	0
Common ECM Eq	0	969	943
NAVSTAR GPS (User Eq)	0	578	363
TOTAL COST	13171	1547	1306

### BASIS FOR COST ESTIMATE:

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## OTHER PRODUCTION CHARGES FACT SHEET

(Dollars in Thousands)

PROJECT TITLE: RANGE IMPROVEMENT

MODELS OF AIRCRAFT APPLICABLE: F-4, A-7, F-15, F-16, F-111, F-106

DESCRIPTION/JUSTIFICATION: Air Combat Maneuvering Instrumentation (ACMI) systems provide an improved capability to train, test and evaluate aircrews and weapon systems for combat readiness. ACMIs are used to support the aircrew training and discrete test requirements of USAF, OSD/DDTE/DOE and Congress. The pods are airborne subsystems of the ACMI and provide altitude, position and vector tracking data. The pods are compatible with the above aircraft. The Navy is executive agency for this joint Air Force and Navy acquisition program. TAC ROC 305-76 (Revised) forms the basis for the Air Force requirement.

DEVELOPMENT STATUS: P3, P4 and P4AX ACMI pods, HUS pods, and associated test sets are complete. The P4 pod acquired in FY85 contains a radar altimeter, UHF transmitter and aircrew prompting system.

### PROJECTED FINANCIAL PLAN:

#### BASIS FOR COST ESTIMATE:

	FY 93	FY 94	FY 95
ACMI Pods	6515	8115	26608
TOTAL COST	6515	8115	26608

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## OTHER PRODUCTION CHARGES FACT SHEET

(Dollars in Thousands)

PRODUCTION TITLE: Low Altitude Navigation and Targeting Infrared System for Night (LANTIRN)

MODELS OF AIRCRAFT APPLICABLE: F-16C, F-16D, and F-15E

DESCRIPTION/JUSTIFICATION: The LANTIRN system provides USAF forces the capability to conduct close air support and interdiction missions at night and under-the-weather in F-15E and F-16C/D fighter aircraft. LANTIRN includes development and production of a wide-angle raster head-up display, a navigation pod, targeting pod and associated support equipment. The navigation pod contains a fixed forward looking infrared (FLIR) sensor; the targeting pod contains a gimbaled FLIR, a laser designator, an automatic tracker, a missile boresight correlator and growth provisions for an automatic target recognizer. LANTIRN provides the capability not only to attack at night, but also to attack with precision laser guided weapons day or night, and in conditions of limited visibility. FY 94 and 95 Other Production Charges provide for software updates to correct for deficiencies resulting from initial operation of the targeting pod, and to maintain system compatibility with software updates to either or both aircraft suites. Additionally, it provides for correction of deficiencies (reduced slew delays, tracker improvements, reduced FLIR picture jitter, space stabilized search mode, etc.) identified primarily from F-15E operations in Desert Storm.

DEVELOPMENT STATUS: N/A

FY 93 FY 94 FY 95

### BASIS FOR COST ESTIMATES:

PROGRAM COST	3099	25871	13707
TOTAL COST	3099	25871	13707

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OTHER PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)

PROJECT TITLE: Navstar Global Positioning System (GPS) (User Equipment)

MODELS OF AIRCRAFT APPLICABLE: F-117

DESCRIPTION/JUSTIFICATION: Navstar GPS is a space-based radio navigation system that will provide users with precise position, velocity and time using passive receivers on a day/night all-weather worldwide basis. This appropriation funds the procurement, integration, and installation of NAVSTAR GPS user equipment into the above aircraft.

DEVELOPMENT STATUS: N/A

	FY 93	FY 94	FY 95
BASIS FOR COST ESTIMATE:			
Nonrecurring/Integration			
PROGRAM COST	82601	67175	70311
TOTAL COST	82601	67175	70311

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OTHER PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)

PROJECT TITLE: KC-135 Cargo Rollers

MODELS OF AIRCRAFT APPLICABLE: KC-135

DESCRIPTION/JUSTIFICATION: The KC-135 Cargo Roller program will enhance airlift capability and add flexibility to airlift operations by providing KC-135 aircraft with an inherent capability to carry 463L palletized cargo. This will allow each KC-135 to carry up to six 463L pallets, of approximately 5000 pounds each, on standard cargo rollers equipped with side rails and locks. The addition of cargo rollers will also improve KC-135 throughput, making the aircraft ideal for high priority channel missions.

DEVELOPMENT STATUS: N/A

	FY 93	FY 94	FY 95
PROGRAM COST	7489	2998	3842
TOTAL COST	7489	2998	3842

BASIS FOR COST ESTIMATE:

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FY 95 PRESIDENT'S BUDGET  
OTHER PRODUCTION CHARGES FACT SHEET  
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PROJECT TITLE: GBU-15/AGM-130 Improved Airborne Data Link Pod

MODELS OF AIRCRAFT APPLICABLE: F-15E and F-111F.

DESCRIPTION/JUSTIFICATION: The GBU-15 and AGM-130 are data link precision guided weapons. The airborne data link pod provides the applicable aircraft with the standoff capability to guide these weapons to a designated target. The Improved Data Link system is a more reliable, jam resistant data link, consisting of an aircraft pod data terminal, Weapon Data Terminal and Peculiar Support Equipment.

PROJECTED FINANCIAL PLAN:

	FY 93	FY 94	FY 95
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BASIS FOR COST ESTIMATE:

PROGRAM COST	19478	12295	13888
TOTAL COST	19478	12295	13888

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DATE: FEB 94      FY 95 PRESIDENT'S BUDGET      P-1900  
 OTHER PRODUCTION CHARGES FACT SHEET  
 (Dollars in Thousands)

PROJECT TITLE: HAVE NAP

MODELS OF AIRCRAFT APPLICABLE: B-52

DESCRIPTION/JUSTIFICATION: The HAVE NAP project provides the B-52 the capability to employ strategic conventional precision guided weapons against high value, point targets from standoff ranges to remain clear of enemy air defenses. Each aircraft can carry three missiles and a data link pod (for missile terminal guidance) or four missiles (using a secondary aircraft for terminal guidance). FY 93 funds procure one additional data link pod required by ACC.

DEVELOPMENT STATUS: N/A

PROJECTED FINANCIAL PLAN:

	FY 93	FY 94	FY 95
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BASIS FOR COST ESTIMATE:

Data Link Pods	878	0	0
TOTAL COST	878	0	0

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OTHER PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)

PROJECT TITLE: NATO AWACS

MODELS OF AIRCRAFT APPLICABLE: E-3A

DESCRIPTION/JUSTIFICATION: This project provides the US contribution to the NATO (Airborne Early Warning and Control) Modernization Program (NAMP), a seven year program to update NATO E-3s with capabilities similar to US, UK, and French E-3s under the 1990 addendum to the Multinational Memorandum of Understanding. NAMP upgrades include the anti-jam radios (Have Quick A-Nets), JTIDS TADIL J Data Link, improved COMSEC equipment (ANDVT), and color consoles. Joint US/NATO Cooperative developments include Electronic Support Measures (ESM) and Radar System Improvement Program (RSIP). NATO's E-3s provide air and maritime surveillance for allied forces in the NATO area of operations.

PROJECTED FINANCIAL PLAN:

	FY 93	FY 94	FY 95
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BASIS FOR COST ESTIMATE:

AWACS	40027	88336	2934
TOTAL COST	40027	88336	2934

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## OTHER PRODUCTION CHARGES FACT SHEET (Dollars in Thousands)

PROJECT TITLE: F-117

MODELS OF AIRCRAFT APPLICABLE: F-117

DESCRIPTION/JUSTIFICATION: The F-117A Stealth Fighter is the world's first operational aircraft to exploit low observable stealth technology. It can use a variety of weapons to attack high priority targets anywhere in the world. It is designed to penetrate dense threat environments and hit targets with pinpoint accuracy. Its sophisticated navigation and attack systems increase mission effectiveness and reduce pilot workload. The Other Production Charges (BA-7) funds provide for changes to the aircraft which were initiated prior to its being declassified. These include Infrared Acquisition and Designation System (IRADS) turret upgrade, the offensive capabilities improvement program and replacing the current inertial navigation system with a ring laser gyro plus a GPS receiver. A total of 59 aircraft have been delivered. The first was delivered in 1982; the last in 1990. Initial operational capability was achieved in 1983.

### PROJECTED FINANCIAL PLAN:

	FY 93	FY 94	FY 95
F-117	114025	106914	37822
TOTAL COST	114025	106914	37822

### BASIS FOR COST ESTIMATE:

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OTHER PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)

PROJECT TITLE: Flight Screening

MODELS OF AIRCRAFT APPLICABLE: N/A

DESCRIPTION/JUSTIFICATION: This project provides resources to conduct USAF Academy's T-41C Pilot Indoctrination and Glider/Parachuting Airmanship Programs.

PROJECTED FINANCIAL PLAN:

	FY 93	FY 94	FY 95
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BASIS FOR COST ESTIMATE:

PROGRAM COST	0	106	108
TOTAL COST	0	106	108

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## OTHER PRODUCTION CHARGES FACT SHEET

(Dollars in Thousands)

PROJECT TITLE: Training (Offensive)

MODELS OF AIRCRAFT APPLICABLE: B-1, B-52

DESCRIPTION/JUSTIFICATION: Funds support the Bomber Aircraft Instrumentation System (BAIS) which is the interface to allow bomber aircraft to use existing instrumented bombing ranges such as Red Flag Mission Debriefing System (MDS), USAF Air Combat Maneuvering Instrumentation System (ACMI) ranges, and Navy Tactical Air Combat Training System (TACTS) ranges. The BAIS interface will provide the means to capture real-time bomber position, electronic warfare, and weapon systems information for no-drop weapons and mine scoring and will provide for ground and air-breathing threat engagements for debriefing aircrew training.

### PROJECTED FINANCIAL PLAN:

	FY 93	FY 94	FY 95
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### BASIS FOR COST ESTIMATE:

Training Equipment	4682	4686	0
TOTAL COST	4682	4686	0

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FY 95 PRESIDENT'S BUDGET  
OTHER PRODUCTION CHARGES FACT SHEET  
(Dollars in Thousands)

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PROJECT TITLE: Pollution Prevention

MODELS OF AIRCRAFT APPLICABLE: N/A

DESCRIPTION/JUSTIFICATION: Installations and Government Owned Contractor Operated (GOCO) facilities throughout the Air Force require and are authorized, equipment, facility projects, and services that must be acquired to accomplish the Air Force's pollution prevention goals. These goals are a direct result of the Pollution Prevention Act of 1990, Montreal Protocol and Executive Order 12856. This budget item identifies the pollution prevention initiatives required to reduce and prevent harmful releases of hazardous and toxic materials to air, land, ground water and surface water. It includes equipment, projects, and services such as freon recovery projects, vapor degreaser replacements, recycling equipment, and hazardous waste reduction projects.

## PROJECTED FINANCIAL PLAN:

	FY 93	FY 94	FY 95
Environmental Compliance	0	8152	8842
TOTAL COST	0	8152	8842

## BASIS FOR COST ESTIMATE:

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## OTHER PRODUCTION CHARGES FACT SHEET (Dollars in Thousands)

PROJECT TITLE: Follow-on Tactical Reconnaissance System (FOTRS)

MODELS OF AIRCRAFT APPLICABLE: F-16C

DESCRIPTION/JUSTIFICATION: FOTRS production funding supports the procurement of 80 modification kits, 62 reconnaissance pods, and 50 sensor suites to provide a reconnaissance-capable F-16, titled the F-16R. Desert Storm/Shield highlighted shortfalls in interoperability and timely imagery intelligence information to out tactical commanders. The sensor suite carried in the reconnaissance pod on the F-16 is common to USAF, USMC, and USN manned and unmanned platforms, thereby promoting interoperability. The F-16R with its digital imagery system will provide real-time/near-real-time imagery information not available with current film-based imagery systems. In addition, the transition from the RD-4C with its film-based system to the F-16R with its digital imaging system will result in significant O&S savings.

DEVELOPMENT STATUS: This program was terminated in the FY94 budget.

### PROJECTED FINANCIAL PLAN:

	FY 93	FY 94	FY 95
BASIS FOR COST ESTIMATE:			
	12	12782*	0
TOTAL COST	12	12782*	0

\* See Development Status

UNCLASSIFIED

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UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET				DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
AIRCRAFT PROCUREMENT/AF, BA07, OTHER PRODUCTION CHARGE		Defense Airborne Reconnaissance Program (DARP)					
	FY (PY) 93	FY (CY) 94	FY (BY) 95	FY (BY+1) 96	FY (BY+2) 97	FY (BY+3) 98	FY (BY+4) 99
QUANTITY	0	0	0	0	0	0	0
COST (in thousands)	0	0	196886	179757	109514	141613	134677

RC-135 COBRA BALL:

Funds are used to provide an incremental upgrade to the open architecture configuration. Funds will be used to procure modification and installation kits to COBRA BALL I (ACFT 663) to COBRA BALL III (ACFT 662) configuration during the maintenance cycle. It will also pay for secure communications network software and documentation. This is an example of hardware/software fixes

RC-135 RIVET JOINT:

Funds are used to provide a quick reaction capability to the RIVET JOINT (RJ) fleet. While the RJ fleet incrementally upgraded through a baseline configuration, there are instances when there has to be quick hardware/software fixes (i.e., Proforma), P3I upgrades, and modifications in hardware/software to respond to new taskings.

Other DARP Programs:

Information pertaining to other DARP programs is classified and is available on a need-to-know basis.

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UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET				DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				
AIRCRAFT PROCUREMENT/AF, BA07, OTHER PRODUCTION CHARGE		Common ECM Equipment				
	FY(PY) 93	FY(CY) 94	FY(BY) 95	FY(BY+1) 96	FY(BY+2) 97	FY(BY+3) 98
QUANTITY	0	0	0	0	0	0
COST (in thousands)	97680	24511	41292	20529	19748	58122
						79755

These programs provide for electronic countermeasures and related support equipment which is (1) not directly related to other procurement line items in this appropriation, (2) cannot be reasonably allocated and charged to other procurement line items in this appropriation, (3) can be managed as separate end items and (4) contains certain classified programs.

	FY(PY) 93	FY(CY) 94	FY(BY) 95	FY(BY+1) 96	FY(BY+2) 97	FY(BY+3) 98	FY(BY+4) 99
ALQ-184	87831	9540	9743	9711	9517	9468	10014
ALQ-99	9849	14971	22028	514	917	37967	58604
ALQ-172	0	0	9521	10304	9314	10687	11137

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UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET				DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
AIRCRAFT PROCUREMENT/AF, BA07, OTHER PRODUCTION CHARGE		ALQ-184					
	FY(PY) 93	FY(CY) 94	FY(BY) 95	FY(BY+1) 96	FY(BY+2) 97	FY(BY+3) 98	FY(BY+4) 99
QUANTITY	101	0	0	0	0	0	0
COST (in thousands)	87831	9540	9743	9711	9517	9468	10014
MISSION AND DESCRIPTION: This project supports acquisition of kits to modify the ALQ-119 into the ALQ-184 and the ALQ-131 Block II pod configurations to counter Soviet terminal and airborne interceptor radar systems.							
FY94 PROGRAM JUSTIFICATION: Provides funding for software upgrades, ECPs, program support and product improvement.							
FY95 PROGRAM JUSTIFICATION: Continues the FY94 program.							
COOPERATIVE AGREEMENTS: NONE							

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AIRCRAFT COST ANALYSIS (Dollars in thousandss)	A. Aircraft Model		B. Popular Name		C. Manufacturer		D. Date	
			ALQ-184		Raytheon		Feb-94	
	FY93	QTY	101	FY94	QTY	0	FY95	QTY
1. AIRFRAME/CFE								
2. ENGINE/ACCESSORIES (PER A/C)								
(ENG MODEL: )								
3. AVIONICS: CFE								
GFE								
4. ARMAMENT								
5. OTHER GFE								
6. ECO (ALL FLYAWAY COMPONENTS)								
7. NON-RECURRING COSTS								
8. OTHER COSTS								
9. FLYAWAY COSTS								
10. AIRFRAME PGSE								
11. ENGINE PGSE								
12. AVIONICS PGSE								
13. PECULIAR TRAINING EQUIPMENT								
14. PUBLICATIONS/TECH. DATA								
15. ECO (ALLSUPPORT ITEMS)								
16. OTHER (CFTS)								
17. INTERIM CONTRACTOR SUPPORT								
18. SUPPORT COST								
19. GROSS P-1 COST								
20. LESS: PRIOR YR ADV. PROC.								
21. NET P-1 COST								

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PROCUREMENT HISTORY & PLANNING

| Feb-94

B. APPROPRIATION/BUDGET ACTIVITY

C. P-1 ITEM NOMENCLATURE

AIRCRAFT PROCUREMENT/AF, BA07, OTHER PROD CHGS

ALQ-184

LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACT BY	P/R RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
Kit											
FY93	Raytheon	FFP	USAF	Jan-93	Jan-94	Aug-95	101	950	YES	NO	-

REMARKS: \* Contract is an FY88 document with dates, prices and deliveries established as annual options.

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: ALQ-184

Date: Feb-94

I. Procurement Program (Quantity):

FY(BY) 95	0
FY(CY) 94	0
FY(PY) 93	101

II. Hardware (Unit Cost):

	FY(PY) 93	DIFF	FY(CY) 94	DIFF	FY(BY) 95
ALQ-184	775	N/A	N/A	N/A	N/A

III. Peculiar Support (Total Cost):

ECM Pods Not applicable.

EXHIBIT P-44

UNCLASSIFIED

U N C L A S S I F I E D      BUDGET ITEM JUSTIFICATION SHEET						DATE	
APPROPRIATION/BUDGET ACTIVITY							
AIRCRAFT PROCUREMENT/AF, BA07, OTHER PRODUCTION CHARGES							
P-1 ITEM NOMENCLATURE							
ALQ-99							
	FY(PY)93	FY(CY)94	FY(BY)95	FY(BY+1)96	FY(BY+2)97	FY(BY+3)98	FY(BY+4)99
QUANTITY	N/A	62	30	0	0	10	20
COST (in Thousands)	9849	14971	22028	514	917	37967	58604
<p><b>MISSION AND JUSTIFICATION:</b> This project supports upgrades to the ALQ-99 TJS (Tactical Jamming System) which improves the system availability and jamming effectiveness. The EF-111 mission is to deny enemy use of air defense systems. The EF-111 was designed against a 1970's threat. The upgrades enable the EF-111 to suppress today's modern air defense systems (double digit SAMs). The upgrades to be acquired are Band-9/10 production transmitters, Band-4 production transmitters, and production Digital Based Exciters.</p> <p><b>FY94 PROGRAM JUSTIFICATION:</b> Procures 56 Band-4 transmitters and refurbishes 6 of the EMD units following completion of EMD in the fourth quarter of FY 94. These transmitters provide a significant increase in reliability by replacing tube technology with solid state devices. The procurement results in the replacement of all presently fielded Band-4 transmitters.</p> <p><b>FY95 PROGRAM JUSTIFICATION:</b> Procures 24 Band-9/10 transmitters and refurbishes 6 EMD units following successful completion of first article testing in the fourth quarter of FY 95. These transmitters increase the ALQ-99 frequency range, enabling it to suppress modern EW/GCI acquisition radars operating at high frequencies.</p>							
COOPERATIVE AGREEMENTS: NONE							

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AIRCRAFT COST ANALYSIS (Dollars in Millions)	A. Aircraft Model		B. Popular Name		C. Manufacturer		D. Date	
	FY93	QTY N/A	FY94	QTY 62	FY95	QTY 30		QTY 0
	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost
1. AIRFRAME/CFE								
2. ENGINE/ACCESSORIES (PER A/C)								
(ENG MODEL: )								
3. AVIONICS: CFE								
GFE								
4. ARMAMENT								
5. OTHER GFE (for EF-111A/ALR-62I)								
6. ECO (ALL FLYAWAY COMPONENTS)								
7. NON-RECURRING COSTS								
8. OTHER COSTS								
9. FLYAWAY COSTS								
10. AIRFRAME PGSE								
11. ENGINE PGSE								
12. AVIONICS PGSE								
13. PECULIAR TRAINING EQUIPMENT								
14. PUBLICATIONS/TECH. DATA								
15. INTERIM CONTRACTOR SUPPORT								
16. OTHER								
17. SUPPORT COST								
18. GROSS P-1 COST								
19. LESS: PRIOR YR ADV. PROC.								
20. NET P-1 COST								
NOTE: UNIT FLYAWAY COST DOES NOT INCLUDE NON-RECURRING COSTS.								
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## PROCUREMENT HISTORY &amp; PLANNING

A. DATE

Feb-94

## B. APPROPRIATION/BUDGET ACTIVITY

AIRCRAFT PROCUREMENT/AF, BA07, OTHER PROD CHAR

## C. P-1 ITEM NOMENCLATURE

ALQ-99

LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACTE BY	P/R RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
Kit											
FY93	AEL	FPI	USAF	Feb/Jun-94	Feb/Jun-94	Aug-96	N/A	0	YES	NO	N/A
FY94	AEL/Motorola	FFP	USAF	Mar-94	Aug-94	Feb-96	62	231	YES	NO	N/A
FY95	AEL	FPI	USAF	Mar-95	Aug-95	Feb-96	30	711	YES	NO	N/A

REMARKS:

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: ALQ-99

Date: Feb-94

I. Procurement Program (Quantity):

FY(BY) 95 30  
FY(CY) 94 62  
FY(PY) 93 N/A

II. Hardware (Unit Cost):

	FY(PY) 93	DIFF	FY(CY) 94	DIFF	FY(BY) 95
ALQ-99					
Band-9/10	N/A	N/A	N/A	N/A	711
Band-4	N/A	N/A	231	N/A	N/A
DBE	N/A	N/A	0	N/A	N/A

FY93 has no units procured, DT&E/IOT&E completion  
FY 94 procures all required Band-4 transmitters  
FY 95 procures Band-9/10 transmitters after successful completion of DT&E/IOT&E

III. Peculiar Support (Total Cost):

ALQ-99	0	639	700
Interim Contractor Support	2687	0	0

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UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET				DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
AIRCRAFT PROCUREMENT/AF, BAO7, OTHER PRODUCTION CHARGE		ALQ-172					
	FY (PY) 93	FY (CY) 94	FY (BY) 95	FY (BY+1) 96	FY (BY+2) 97	FY (BY+3) 98	FY (BY+4) 99
QUANTITY	0	0	1	5	3	14	37
COST (in thousands)	0	0	9521	10304	9314	10687	11137
<p>MISSION AND DESCRIPTION: This project supports acquisition of kits to modify the AC-130H with the ALQ-172 radar jamming system to counter adversary anti-aircraft artillery, surface-to-air missile and airborne interceptor radar systems. Additionally, this project supports acquisition of kits to incorporate engineering change proposal (ECP) - 93 into ALQ-172 systems installed on MC-130E/H and AC-130H/U aircraft. Further, incorporates a low band jammer system into those ALQ-172 systems installed on AC-130H aircraft.</p> <p>FY95 PROGRAM JUSTIFICATION: Provides funds for software upgrades, ECPs, and aircraft installation.</p>							
COOPERATIVE AGREEMENTS: NONE							

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AIRCRAFT COST ANALYSIS (Dollars in thousandss)	A. Aircraft Model		B. Popular Name		C. Manufacturer		D. Date	
UNCLASSIFIED	QTY		FY94		QTY		FY96	
	0		0		0		1	
	FY93		FY95		FY96		FY96	
1. AIRFRAME/CFE 2. ENGINE/ACCESSORIES (PER A/C) (ENG MODEL: ) 3. AVIONICS: CFE GFE 4. ARMAMENT 5. OTHER GFE 6. ECO (ALL FLYAWAY COMPONENTS) 7. NON-RECURRING COSTS 8. OTHER COSTS	Total Cost		Unit Cost		Total Cost		Unit Cost	
	1500		0		1500		1500	
	0		0		1718		2304	
9. FLYAWAY COSTS 10. AIRFRAME PGSE 11. ENGINE PGSE 12. AVIONICS PGSE 13. PECULIAR TRAINING EQUIPMENT 14. PUBLICATIONS/TECH. DATA 15. ECO (ALLSUPPORT ITEMS) 16. OTHER (CFTS) 17. INTERIM CONTRACTOR SUPPORT 18. SUPPORT COST 19. GROSS P-1 COST 20. LESS: PRIOR YR ADV. PROC. 21. NET P-1 COST	Total Cost		Unit Cost		Total Cost		Unit Cost	
	1500		0		3218		3804	
	0		0		4303		0	
UNCLASSIFIED	0		0		2000		500	
	0		0		6303		500	
	0		0		9521		4304	
UNCLASSIFIED	0		0		9521		4304	
	0		0		9521		4304	
	0		0		9521		4304	

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PROCUREMENT HISTORY & PLANNING											
Feb-94											
B. APPROPRIATION/BUDGET ACTIVITY											
C. P-1 ITEM NOMENCLATURE											
AIRCRAFT PROCUREMENT/AF, BA07, OTHER PROD CHGS											
ALQ-172											
LINE ITEM/ FISCAL YEAR	CONTRACTOR	CONTRACT METHOD & TYPE	CONTRACT BY	P/R RELEASE DATE	AWARD DATE	DATE OF FIRST DELIVERY	QTY	UNIT COST	SPECS AVAIL NOW	SPEC REVIS REQ'D	IF YES, WHEN AVAIL
Kit FY95	ITT	FPI	USAF	Jul-93	Oct-93	Jan-95	0	1500	NO	NO	-
REMARKS: The ALQ-172 was an on-going, available system that could be readily adapted to the AC-130H. FY95 procures one unit for trial installation. FY96-99 are the core installation years.											

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WEAPON SYSTEM COST DATA SHEET  
(TOA, Dollars in Thousands)

Weapon System: ALQ-172 Date: Feb-94

I. Procurement Program (Quantity):

FY (BY2)	5
FY (BY) 95	1
FY (CY) 94	0
FY (PY) 93	0

II. Hardware (Unit Cost):

ALQ-172	FY (PY) 93	DIFF	FY (CY) 94	DIFF	FY (BY) 95
	N/A	N/A	N/A	N/A	1500

III. Peculiar Support (Total Cost):

ALQ-172	0	0	4303
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UNCLASSIFIED

UNCLASSIFIED		BUDGET ITEM JUSTIFICATION SHEET				DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				Feb-94	
AIRCRAFT PROCUREMENT/AF, BA07, OTHER PRODUCTION CHARGE		Cancelled Account Adjustments					
	FY (PY) 93	FY (CY) 94	FY (BY) 95	FY (BY+1) 96	FY (BY+2) 97	FY (BY+3) 98	FY (BY+4) 99
QUANTITY	0	0	0	0	0	0	0
COST (in thousands)	26622	0	0	0	0	0	0

This account pays for upward obligation adjustments for cancelled accounts.